

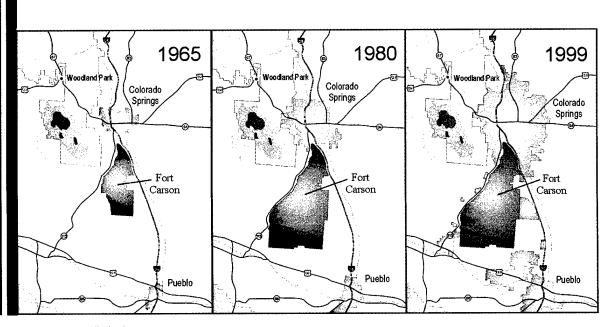
# **Urban Encroachment of Military Lands**

## Military Installations at Risk

Brian M. Deal, Diane M. Timlin, and William D. Goran

January 2002

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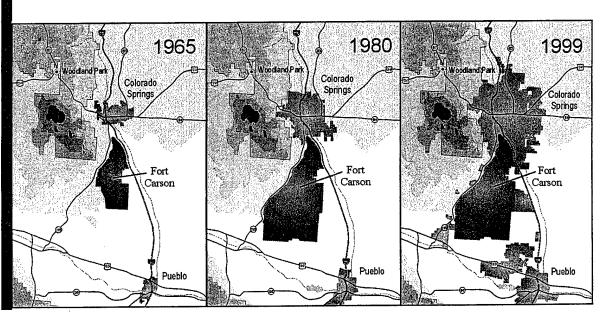
Engineer Research and Development Center

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## **Foreword**

This study was conducted for Headquarters, U.S. Army Corps of Engineers (HQUSACE) under Project 622720A896, "Base Facilities Environmental Quality"; Work Unit, CFE, Task T141, "Environmental Indices & Metrics." The technical monitor was William D. Goran, CEERD-CV-T

The work was performed by the Energy Branch (CF-E), of the Facilities Division (CF), Construction Engineering Research Laboratory (CERL). The CERL principal investigator was Brian M. Deal. Thomas J. Hartranft is Chief, CEERD-CF-E, and L. Michael Golish is Chief, CEERD-CF. The associated Technical Director was Gary W. Schanche, CEERD-CV-T. Part of this work was done by Diane M. Timlin, of the Geographic Modeling Systems Laboratory, University of Illinois at Urbana-Champaign, (UIUC) under contract No. DACA88-99-D-0002. The technical editor was William J. Wolfe, Information Technology Laboratory-CERL. The Director of CERL is Dr. Alan W. Moore.

CERL is an element of the U.S. Army Engineer Research and Development Center (ERDC), U.S. Army Corps of Engineers. The Commander and Executive Director of ERDC is COL John Morris III, EN and the Director of ERDC is Dr. James R. Houston.

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## 1 Introduction

#### **Background**

The U.S. Department of Defense (DOD) maintains over 10 million hectares of land to house and train troops, test weapons, and conduct readiness exercises. Military installations provide environmental benefits in terms of habitat protection for threatened and endangered species, and conservation planning of forestry, rangeland, and water resources. Installations are often seen as key contributors to local economies. They serve as significant sources of employment and consumers of resources, stimulate the development of housing, retail services and utilities, and attract other economic sectors in support of their operations.

Despite the economic and environmental contributions of military installations to their surrounding areas, areas of conflict sometimes arise between installations and local neighboring communities. Issues include land devaluation resulting from incompatible neighboring land uses, competition for resources such as water and utilities, and military operation by-products such as noise, pollution, and other hazards. Military installations are increasingly being asked to alter activities within their boundaries to alleviate these conflicts. For example, Camp Pendleton has restricted flight routes, Fort Sill has eliminated firing ranges, and Fort Carson has experienced threats to firing operations. These constraints have all resulted from local community conflict. The growing friction and restrictions to such operations and land use may put installations at risk for meeting mission requirements.

One hypothesis for the increasing risk is that exogenous effects of community growth escalate community-installation conflicts. As the local economy expands, land and other resources become scarce and competition increases. Eventually the installation's contribution to the community is surpassed by the community's need for more resources. Installation land becomes more desirable for development than for military use, and the installation is perceived as a barrier to continued local growth. As the community grows geographically closer to and economically more independent from the installation, the installation is increasingly at risk for external demands to restrict activities seen as detrimental to the community's values.

From a military perspective, the importance of understanding urban change is important for sustained mission operations. The continued availability of these land and related sea and airspace resources is critical for the sustainment of readiness and power projection capabilities. The rapid pace of urbanization occurring all across the United States threatens this availability. This dynamic urbanization results from both an increasing population and a dramatic increase in low-density development across previously rural and agriculturally dominated landscapes. In northeastern Illinois, for example, a population increase of 4 percent (1970–1990) resulted in a 46 percent increase in urbanized land uses.

If the exogenous effects of community growth are a significant source of risk to military land uses, installations must begin to evaluate what is happening "outside the fence line." Identifying key measures that could indicate when an installation becomes at risk, and monitoring for those changes in the surrounding areas, would create a proactive, sustainable environment to protect critical existing assets.

Numerous public and private sector organizations have recently embraced the concept of sustainability (AIA 1996; DOE 1999; Kidd 1992; WCED 1987). An assessment of the current State of the DOD's sustainable land-use planning policies—Sustainable Planning; A Multi-Service Assessment, was published in 1999 (EDAW 1999). The Secretary of Defense report describes current DOD land-use policies as limited to "those assets found within the installation boundary; they do not strongly support planning with a regional perspective." The report concludes that sustainable development is most successful where cooperation between military and civilian communities is maximized. The focus of military planning must shift from a growth based, project-oriented analysis to a more integrated approach that provides sustainable solutions and strategies that support mission needs (EDAW 1999).

There is currently no explanatory model of installation risk from exogenous factors, nor is there a documented consensus about a sample of installations that are or are not at risk, to enable an empirical evaluation of at-risk factors. A clearer understanding of the spatial (and nonspatial) interactions between the military community, its planning policies, and the adjacent community is an important step toward resolving these issues and toward forming sustainable development strategies for both the civil and military communities. There is a need to focus on the development of an analytical system to improve the decisionmaking processes and land management practices of the military and adjacent private sector communities. This study was undertaken as a preliminary investigation into developing a rating system of DOD properties at risk from community-military conflict.

#### **Objectives**

The goals of this research were to:

- 1. Identify and evaluate indicators of risks to military lands due to exogenous effects of local area growth
- 2. Analyze military installations most at-risk from the urbanization and encroachment of adjacent land uses, with particular attention given to spatial strategies to determine and assess risk
- 3. Determine possible approaches to find and develop more sustainable solutions to current patterns of local area growth.

#### **Approach**

Preliminary work determined a limited set of demographic "risk factors." This early work was expanded to include work additional demographics, economic data and urbanization measures, and to allow comparison of results of including or excluding different factors.

Initial steps identified and characterized military installations at-risk from rapid urban growth. At the outset of the study, knowledge of recent conflicts prompted researchers to assume that certain installation properties were more at risk than others (i.e., known complaints had already been voiced in attempts to restrict activities or obtain compensation for nearby private properties). CERL technical points of contact (POCs) created a preliminary risk scale based on "expert knowledge." Camp Pendleton MC Base, CA; Fort Carson, CO; Eglin AFB, FL; Fort Benning, GA; and Fort Riley, KS were posed as a set of installations whose situations range on a relative scale from "most at risk" to "least at risk." The project tested the veracity of these assumptions, and attempted to place other installations along a risk scale to analyze the extent of the problem and to identify other areas for concern.

A variety of demographic, economic, and land use data were gathered and examined as potential risk indicators. Traditional data analysis and spatial modeling techniques were incorporated within the framework of geographic information systems (GISs). Several data summarization levels and spatial scales were evaluated to determine if different risk assessments might be derived, and to suggest monitoring approaches for continuing assessment.

The conceptual model focused on several potential points of conflict:

- relative contribution of the installation to the local economy
- competition with other economic sectors for resources
- physical dominance of land area within the region
- external effects of installation activities.

(Note that not all of these factors are included for reasons explained in this report.)

#### Scope

This project considered installations only within the continental Unites States (CONUS). A significant effort was required to derive a set of current DOD land holdings in a spatially referenced format. The data developed for the study borrowed from several sources; the final set included 301 individual parcels representing all branches of the military.

Because of a lack of any demonstrable risk cases or measures to serve as a calibration mechanism, the indices used in this work were derived using relative rankings. Comparisons were made among the installation properties studied, such that properties are identified as more at risk than others based on how a particular factor compares to others. As a result, this study uses an exploratory data analysis approach limited by the availability of data and by the lack of a "dependent" variable of risk.

Data evaluated as risk measures include population (U.S. Bureau of the Census), earnings (U.S. Department of Commerce), employment (U.S. Bureau of Labor Statistics), and urban development or statistical areas (U.S. Department of Agriculture and U.S. Bureau of the Census). All factors have a spatial reference, usually a county designation.

The study explored development of risk indicators at three scales: summary, county of residence, and area of influence. The summary level looked at aggregate data to develop a descriptive characterization of installation properties nationwide. This level evaluated properties by State, and served as a useful scale for developing the ranking and assessment approach. The county of residence level required associating each installation property with a home county, thus establishing a better association for the assessment of neighboring population, economic, and land use relationships. This level also included some noncounty local area factors such as the proximity of urban areas. County of residence was the most informative level for risk assessment considering the scope of this

study. The third level, local area of influence, is more expansive than county of residence because it considers all neighboring counties and additional time-series analyses for each installation. Because of the additional complexity, this level is an illustration limited to one property. It provides a useful comparison on how choice of scale affects the assessment of risk and the importance of detailed review.

#### **Mode of Technology Transfer**

This work is providing the basis to develop a dynamic spatial analysis approach to identify the relevant interactions between the military installation, the surrounding private sector community, and the ecology of the natural environment. The results of developed scenarios may then be used to analyze the environmental impacts and climate change implications of policy decisions, which will help create sustainability indices for a given locality or region, and ultimately inform a land-use assessment model (Figure 1). The relative risk ranking emerging from this study can also be used by services to help prioritize resources for installation/community studies (e.g., for Joint Land Use Studies [JLUS]).

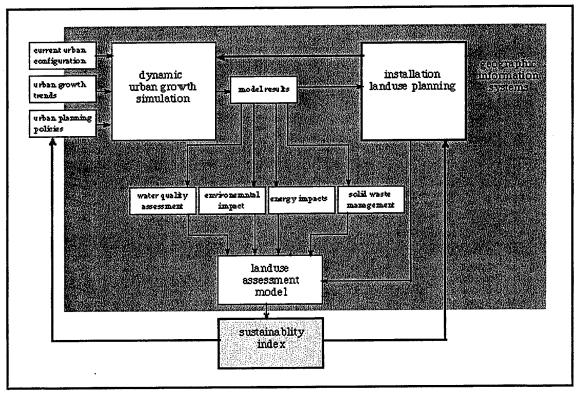


Figure 1. Proposed land-use decision support system.

# 2 Methodology

Development of the risk assessment involved five tasks:

- 1. Identifying a set of DOD properties to evaluate
- 2. Selecting types of data to evaluate as potential risk indicators
- 3. Gathering and preparing data for evaluation
- 4. Deriving potential factors and assessing of their usefulness
- 5. Identifying potentially at-risk properties.

#### **Identification of DOD Properties**

Creating a study set of DOD properties proved to be a complicated and timeconsuming task. It was also critical to ensuring the legitimacy of any analysis and conclusions regarding risk. Two main sources used to identify military property holdings were:

- DOD Fiscal Year (FY96) Worldwide List of Military Installations (<a href="http://www.defenselink.mil/pubs/installations/">http://www.defenselink.mil/pubs/installations/</a>)
- Federal Land Features of the United States, published by the U.S. Geological Survey (USGS) (<a href="http://www.nationalatlas.gov/atlasftp.html">http://www.nationalatlas.gov/atlasftp.html</a>).

The DOD FY96 List was a text format identification of U.S. installations for all military departments. Abbreviated metadata for the DOD FY96 List described its currency as of the end of FY95 (30 September 1995). It also stated that there were numerous activities and smaller sites and properties not listed because they were not regarded as installations, as defined by each military department. The list contained names of 491 CONUS holdings and the following attributes:

- 1. State
- 2. Nearest city
- 3. Category code assigned by the military department: major (1), minor (2), support or other (3)
- 4. Number of assigned military and civilian personnel
- 5. Acreage
- 6. Principal unit or mission.

Not all holdings identified on the list were completely described with respect to the attributes.

The U.S. Geological Service (USGS) Federal Land Features data was a shape file, a proprietary geospatially referenced data format from the Environmental Systems Research Institute (ESRI); it provided location and extent as well as selected attributes. Metadata for the dataset described its currency as 1998, but its lineage began with data as old as 1970 and included several updates. The dataset contained information from many Federal agencies, and there was no indication of what data had been updated and with what reliability. An initial review showed that the DOD information was not current, mostly due to changes resulting from Base Realignment and Closure (BRAC). The dataset contained 507 CONUS military holdings with the following attributes:

- 1. Primary agency/bureau
- 2. Secondary agency/bureau
- 3. State
- 4. Name.

Because the project would evaluate risk from a spatial context, the USGS GIS data set was selected as the primary data source. These data were modified to represent a current set of installations, and was compared with the DOD list and other DOD information relating to property holdings. The DOD Internet web sites proved to be invaluable for verifying the current state of these facilities. Appendix A identifies some of the sites used for verification. Figure 2 shows a map of the final data set used for this study, which contains 301 physical properties in 45 States and the District of Columbia. (There are no properties for Minnesota, New Hampshire, and West Virginia.)

The study data set represents all of the active major and minor installations from the DOD List, and some National Guard and Reserve facilities. It also includes many ranges and outlying fields that are a subpart of an installation, but are geographically separate land holdings. The data set excludes any properties not represented in the original USGS set, since developing the spatially referenced features was beyond the scope of this project. Known missing facilities include: Army properties Fort Myer (VA) and Fort McNair (VA); Air Force Bases Arnold (TN), Columbus (MS), Keesler (MS), and Schriever (CO), and many of the research laboratories. (These were probably omitted from the USGS dataset because of their small size.) Appendix A includes a complete list of the properties included in this study.

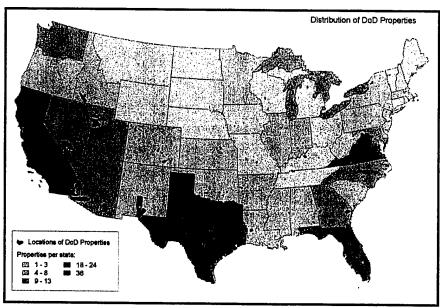


Figure 2. Distribution of DOD properties examined in study.

#### Selection of Risk Measurement Data

The study had two guiding assumptions: (1) that military property risk is associated with community-installation conflict, and (2) that conflict is caused by community growth. These assumptions pointed to three main stressors: community size, economic strength, and community proximity. Community size and economic strength become stressors when some threshold of relative strength of the community compared to the installation is exceeded. Increases in these areas indicate pressure for development of land to support residential, commercial, industrial, and support uses. (As described here, "support" uses include schools, safety, transportation, etc.) Proximity becomes a stressor when community growth increases the contiguity between the community and the installation; more and nearer neighbors increase the likelihood of incompatibilities and conflict. Given sufficient community size and proximity, the installation becomes an unintended growth limiter for the community.

There are many potential indicators for measuring these stressors. Indicator data appropriate for this study needed to be:

- available at a uniform scale for the entire study area to ensure consistency in comparisons
- recorded for multiple time periods to enable the evaluation of change
- prepared by a reputable source, such as a government agency or professional data vendor, and accompanied by metadata for quality assurance
- provided in a digital format, to accelerate data gathering and preparation for analysis.

Table 1.	Stressors and indicators	of communit	y-installation conflict.
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Stressor	Community Size	Economic Strength	Community Proximity
Population	Υ		
Employment		Υ	
Earnings		Υ	
Developed Land (lands physically developed)	Υ	Υ	Y
Land Use Classification (lands classified as development use)			Y

Primary classes of indicator data selected to represent the identified stressors were population, employment, earnings, developed land, and land use classifications. Table 1 shows the relationship between the stressors and these selected indicators. Population data, available from the U.S. Census Bureau, is summarized at a number of scales and is available as true counts for decennial census years and estimates for interim years. Employment and earnings data are available from the U.S. Bureau of Labor Statistics, with time series detail as often as monthly. (This study used the annual summaries.) Employment is an average annual number of jobs, full-time and part-time; earnings are wages and salaries. Both are recorded at the four-digit Standard Industrial Classification (SIC) detail. (This study used the one-digit summaries.) These three factors could be obtained at the county, State, and regional/economic area scales.

Developed land and land use classification data are applicable to community proximity because they are spatially explicit and can be associated with the military properties based on relative geographic location. However, they are difficult to obtain, particularly for multiple time periods. While recent advances in remote sensing have prompted assessment of currently developed land, comparable historic data (especially for the spatial extent of this study) is sparse.

Only one indicator of developed land was available for multiple time periods. This is spatially explicit developed land areas information captured by the Natural Resources Conservation Service's National Resources Inventory (NRI). The NRI uses a statistical sampling approach to collect information on land cover and use, soil erosion, habitat diversity, conservation and resource protection practices for more than 800,000 sites throughout the United States. This information is collected every 5 years (beginning in 1982) and summarized to various scales. Information used for this study describes land as developed (urban areas and rural transportation land), cropland, grazing land, or forested land. At the time of this study, only State-summarized information was available.

For the county of residence scale study, developed land is obtained from the USGS North American Land Cover Characteristics data set. This is a grid map of 24 land use types at a 1 km spatial resolution; the original imagery used for the classification dates from 1992 and 1993. The data contains one classification of developed land, urban, and built-up land. Though the resolution is a limitation, this source is a better indicator of actual land use than the other classification indicators (described below) since it is based on physical characteristics rather than population census data.

The selected land use classification data are products of the decennial census and are only available digitally for the 1990 period. Two data sets used to measure land development are the location and extent of urbanized areas (places of more than 50,000 persons) and locations and populations of cities (places of more than 10,000). Data classifying land use are county designations as metropolitan statistical areas (a Census accounting unit classification) and the urban influence (UI) classification developed by the Economic Research Service of the USDA. The UI classification uses the Census metropolitan statistical area (MSA) designations and the population size of significant urban areas to rank all counties in the United States on a nine-category scale representing degree of urbanization.

In addition to the exogenous data, information was collected to represent the military economic contribution to the study area. Only limited data was readily available from the DOD (per State summary of contract awards, payroll, and personnel records). County-level information on military earnings and employment was available from the main data source (described below). This data summarizes information not only from the four main service branches (Army, Air Force, Marine Corps, Navy), but also includes National Guard, Reserves, and Coast Guard operations, and both active and retired personnel. Thus the military information for a county may be misleading in that it is not limited to the effect of installation properties.

## **Data Gathering and Preparation**

The main source for population, employment and earnings data were the Regional Economic Information System (REIS), a digital data base produced by the U.S. Department of Commerce Bureau of Economic Analysis (BEA). At the onset of this project REIS contained data from 1969 through 1997; additional data for 1998 is now available. Besides its comprehensiveness and ease of use, REIS is a significant element of this study because it includes breakouts of Federal military earnings and employment as a special BEA classification. (It is not part of

the SIC and not available from other sources). REIS data can be selected by item type, year, and summary level (for example, National totals, State totals, individual county, economic area) exported to delimited text files, and imported into Excel or ESRI's ArcView GIS.

The NRI developed land areas data were downloaded from the website (www.nhq.nrcs.usda.gov/land/home.html). The State summary table was exported to a text file and reformatted for incorporation with other State summary data in Excel. The USGS Land Cover Characteristics data were downloaded from the website (www.nationalatlas.gov/atlasftp.html). The land use classification data were obtained from ESRI data and maps as shape files.

County data from the various sources were all referenced by standardized FIPS code. There were instances of coding mismatches. In a few instances, these were simply typographical errors. However, most mismatches were the result of REIS' modified reporting of earnings and employment data for Virginia. Virginia has numerous cities that are treated as independent from their surrounding counties; these independent cities are separately identified in the FIPS county codes and were represented in the county spatial data set. However, the REIS system uses a county equivalent reporting unit that combines independent cities with a parent county, and assigns these a modified FIPS code. To facilitate the matching of data to counties and their related military properties, a revised county spatial data set was created that combined the independent cities and added the REIS FIPS code as a new attribute.

Once the county referencing was resolved, each military property needed to be associated with its county of residence. For many properties, this was accomplished with a spatial join using the GIS. For properties that crossed multiple counties, the county of residence needed to be individually reviewed. First the installation's web site was checked for a reference, or digital maps of the area were reviewed for the location of a main cantonment. The property's county of residence was also checked by examining the REIS military earnings and employment data for the surrounding counties and choosing the county with the dominant values.

#### **Derivation of Factors**

The raw indicator data were rarely used directly as factors because they often proved to be misleading in the comparative ranking approach used for risk assessment. For example, at the summary scale (simply comparing by population) Alabama and Arizona are similarly developed. Based on this criteria, the mili-

tary properties in those States would appear to be equally at risk. However, if population is examined with respect to the total area or its distribution within that area, Arizona has a lower average population density because of its larger area, but actually has a larger metropolitan area compared to its total size. This additional information affects the degree of potential risk for properties within those two States.

All source data were transformed to create better measures of the stressors for a ranked approach to risk assessment. Transformation techniques included simple net change between time periods, rates of change between time periods, and various other ratios. In the case of population measures, creating a ratio with area produced density, a better factor for comparing degree of urbanization than population alone. For economic values such as earnings or spending, creating a ratio with number of employees produced per capita values, a better indicator of relative economic strength than the gross dollars alone. For data available for different classifications (population type, industry type, spending type), one classification could be expressed as a ratio of another or of a total to derive relative percent of contribution or influence.

Transformations of land development and land use classification data were limited because of the lack of time series coverage. However, this data's critical advantage over population and earnings information was its more explicit spatial reference. This enabled the development of distance-based factors at the county of residence scale. The GIS was used to measure the proximity of urban areas to the military properties, and to determine a net urban population within specified distances.

The military economic data were treated similarly to community indicator data. A typical transformation was to create a ratio of a military factor with comparable totals (military employment compared to total employment) to obtain a measure of the military's influence within the region.

At each study scale, the factors derived from transformed indicator data were then evaluated and a reduced set selected to represent the stressors. Lacking significant examples of at-risk properties to calibrate a selection process, factor evaluation for this study employed some best judgments of the investigators. The selection process reduced the set of potential factors to a manageable set that:

- produced a range of measurement with differentiation across the study set
- were not redundant but added information for risk assessment
- as a set, provided the best possible representation of the three stressors.

Only the factors used in the final risk assessment are presented in Chapter 3 ("Results") and in Appendix A to this report.

#### **Identification of At-Risk Properties**

The final steps in the assessment were to identify at-risk properties. A simple approach of comparative ranking was taken for this first evaluation:

- 1. Rank order the properties (or States in the case of the summary level) by each factor, with a ranking of "1" indicating the property/State most at risk. All factors, exogenous and DOD, are ranked. Risk might be related to the highest value (population growth rate) or lowest value (DOD contract dollars awarded) depending on the particular factor.
- 2. Select at-risk properties as those that ranked high for at least one factor under each stressor. The cutoff point for factors varied by level of study. In determining whether a property was at risk, only exogenous factors (those describing the community outside the installation) were considered.
- 3. Determine a level of risk for at-risk properties. Determination of level of risk is based solely on the DOD factors. This incorporates the assumption that the relative contribution of the military to the region influences the degree of conflict and risk. If the presence of the military in the region contributes significantly to the region's economy, then this economic benefit is assumed to reduce the risk (assigned a risk level of Low). If the contribution is insignificant, then the benefit is assumed to enhance the risk. (It is assigned a risk level of High.) An average contribution (a middle ranking for the DOD factors) is assumed to have no effect on risk. (It is assigned a risk level of Moderate.)

## Spatial Analysis

Analysis at the county level can be problematic as installations in counties of high growth and urbanization may still be somewhat isolated from the major urban centers. For these installations, there may still be sufficient opportunity to develop coordinated community planning efforts between the installation and surrounding communities to avoid future land use problems. For many installations, however, the opportunities may have already been greatly diminished.

Fort Carson, CO is a prime example of an installation where urban growth is now poised to constrain military land use. Fort Carson is located just south of Colorado Springs along the Front Range of the Rocky Mountains; it was established as an Army training site during World War II. Figure 3 shows three time steps illustrating the growth of Colorado Springs in relation to Fort Carson.

As the maps indicate, Colorado Springs has grown rapidly. The urbanized area has spread out in every direction. By the late 1980s, urbanization was knocking on the installation boundaries, and during the 1990s the sprawl of greater Colorado Springs (and suburbs) severely impacted base operations. This problem is not limited to Army facilities.

A recent "alternative futures" study was conducted for Camp Pendleton Marine Corps base in California (Stenitz 1997). Camp Pendleton is situated on the Pacific coastline along the rapidly growing corridor between Los Angeles and San Diego (Figure 4). The study attempts to determine likely alternative growth patterns for the surrounding community based on inputs from local community members and planners, and to assess some of the likely impacts on the installation. Results of the study include: a projected increase in the flooding potential on the installation, impacted base operations and natural resource constraints, a reduction in off-post local threatened and endangered species (TES) habitat, and a resultant increase the importance of the TES habitat provided by Camp Pendleton.

The urbanization of adjacent land uses and the constraints that exist inside the fence line have created an increasingly complex and dynamic problem for the military community. Anticipating future urban growth scenarios would greatly improve an installation's ability to provide adequate lands for the maintenance of defense capabilities.

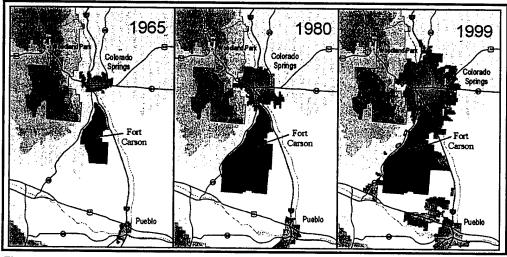


Figure 3. Colorado Springs, CO, geographical growth, 1956-1999.

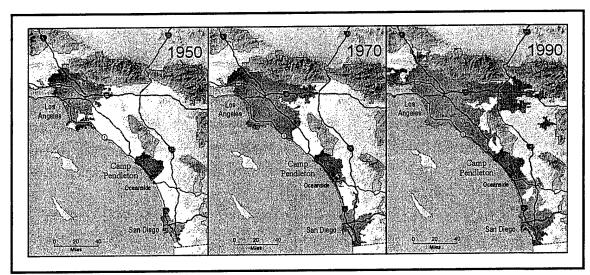


Figure 4. Los Angeles/San Diego geographical growth, 1950-1990.

#### **Environmental and Economic Impacts**

Another important criterion relevant to the interactions between the military and the surrounding community is the extent to which a specific installation impacts a local economy. Historically, large military installations represent high economic multiplier effects in the local economy. In the 1950s for example, Fort Carson was an important player in the local economy. Recently however, the rapid expansion of Colorado Springs has decreased the direct and indirect economic impacts that Fort Carson represents in the area. In California, the percentage of Military employment to all employment State-wide has dropped from over 2 percent to less that 1 percent (Figure 5).

Rapid economic expansion eventually causes the community's perceived value of the installation's economic contributions to compete with the community's "value" for other uses for the installation lands. There are several clear examples where the economic value of the installation was overshadowed by the community's interest in alternative land uses. The Presidio of San Francisco, CA gives a good example. When the Presidio was withdrawn from military use the local community, anxious to uses the prominent site for other uses, welcomed the change. Fort Sheridan on the Lake Michigan shoreline north of Chicago underwent a similar transition. In both cases, the economic value of the installation was no longer significant to the local economy—and the communities were anxious to use the military lands to pursue other opportunities. (Note that these value-based perceptions are influenced by other factors, such as the level of concern for National and local security.

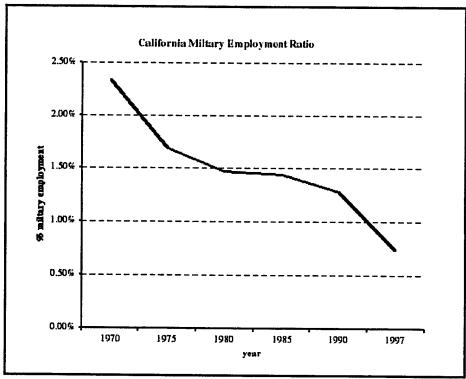


Figure 5. The percentage of persons employed by the U.S. military in California.

The installation may be perceived to impede the community's aspirations for growth when the percentage of economic influence that the installation has in the area is diminished. Pressure builds to bring the public lands into private control through installation privatization, asset sales, or closure.

Although the localized economic impacts of the installation may be perceived as negative, the overall benefit to the region may be an important consideration. The State of California has recognized the importance of retaining a military presence in the State despite localized pressures, and drafted the Defense Retention and Conversion Act of 1999. The focus of the act is to address the mission limitations and constraints caused by rapid urbanization in California. One of the stated goals of the act is to ensure "the long-term protection of lands adjacent to military bases." Similar bills are being worked in other State legislatures.

The issue is also being played out in the National press. On 4 October 1999, the USA Today featured an article "Military Bases Fight Suburban Sprawl" that discusses air flight constraints at the Barry M. Goldwater Range in Arizona, the Mountain Home Air Force Base in Idaho, and Marine Corps bases in San Diego and the Mojave Desert.

#### Land Use Assessment

The derived social, ecological, environmental, and economic impacts inform computational land-use assessment tools. The development of these tools is an important component in evaluating urbanization impacts. Land use assessment tools that utilize conceptual stock aggregation and spatial evaluation techniques quantify the built environment using archetypes and impact profiles. Existing methodologies can be classified into two basic categories—Urban Environmental Management Systems (EMS) and Urban Forecasting Information Systems (FIS) and are represented by available tools including: SmartPlaces (Skiles 1998), Toolkit for Integrated Resource Accounting (TIRA) (Hood and Moffatt 1998), and Social Costs of Alternate Land Development Scenarios (SCALDS) (ECONorthwest and Brinckerhoff 1998). These EMS and FIS tools currently lack military infrastructure and general military installation archetypes. They must be modified and compiled into a comprehensive land use assessment system that incorporates the impacts of land use changes of the built and natural environments by attaching social and economic costs and by tracking resources and emissions.

Scott Campbell discusses strategies for operationalizing environmental impact assessment and sustainability by first describing the tension between economic growth, environmental protection, and social equity. He notes that, "planners need better tools to understand their cities and regions not just as economic systems, or as static inventories of natural resources, but also as environmental systems that are part of regional and global networks ..." This implies the use of large scale "ecosystem modeling" techniques for realizing the environmental implications of planning actions.

Arguments in favor of dynamic (spatial) models to inform the process of societal change and establish causal relationships have been made (Costanza, Daly, and Bartholomew 1991; Forrester 1969; Hannon and Ruth 1994; Ruth and Hannon 1997; Sklar and Costanza 1991). More specifically, modeling provides assistance in managing uncertainty, feedbacks and lags, group decisionmaking, and comprehensive learning (authentic tasks, cognitive apprenticeship). Models and model development benefits can:

- increase awareness in our understanding of fundamental systems processes
   (it allows the identification of the most important parameters in the system)
- provide a system memory
- reveal "normal" system performance
- allow testing of "what-if?" scenarios (experimentation)
- provide quantitative results.

The process of modeling can also facilitate communication through both model results and the model structure to find possible emergent properties of a system.

Simulation modeling can help begin to ascertain future military urban encroachment through the development of policy-based land use change scenarios. These scenarios can help to ascertain the possible environmental and planning impacts of the urbanization problem. Dynamic models can inform the community/installation dialogue, and help in the development of regionally based sustainable indices to encourage sustainable and well coordinated planning solutions.

## 3 Results

#### **Summary Study**

The summary level study determined risk collectively for all properties within a State, evaluating potential community-installation conflict with factors derived from State totals for population, earnings, etc. This generalized perspective does not accurately reflect the proximity of communities and installations. However, there were several advantages to this study scale. First, the summary scale reduced the number of comparisons (46 States versus 301 properties) and made it easier to collect data (because of the much greater availability of State level data than site-specific data), develop factors and rankings, and test the assessment approach. Second, certain information, particularly the time series land development information from the NRI, was only available at this summary level. Finally, experimenting with multiple scales allowed for comparisons among methods as well as factors, and provided additional insight into the directions for future investigations and monitoring for change.

#### Factor Development

Exogenous indicator data were total population, metropolitan population, per capita earnings, metropolitan area, and developed land from the NRI. The original indicator data and related factors are presented in Appendix A. Most indicator data were transformed into better stress measures by considering data with respect to its spatial extent.

Indicators for the community size stressor were total population, metropolitan population (number of persons living in MSAs in the State), and two measures of urban area—MSA (in square miles) and developed land (in acres). Four factors were used for the risk assessment. Total population and State area were transformed into a density factor. Metropolitan and total populations were transformed into a ratio indicating the degree of urbanization. The urban area measures were combined with State area to produce two factors representing the physical extent of urbanized area within the State.

Indicators for the economic strength stressor were growth in population, per capita earnings, and land development. Five factors were used for the risk assess-

ment. Growth factors were derived from time series data as the percentage increase in the data from one period to the next. For population and earnings, two time periods were examined: 1990 to 1997, and 1980 to 1990. For urban development growth, NRI urban land data for the time period 1987 to 1997 was used.

One factor for the community proximity stressor was derived in a two-step process. First the GIS was used to identify all installation properties either partially or completely located within MSAs. For each State, the number of properties within MSAs was compared against the total number of properties to derive a ratio, percent of installation properties within MSAs. The ranking system was slightly modified for this factor because so many of the States had identical scores. The 12 States with 100 percent of their properties located within MSAs all received a ranking of "1." While this caused 22 States to receive top rankings, it was appropriate since there was only one indicator of proximity; even Maryland, the 10th ranked State, has 70 percent of its properties located in metropolitan areas.

Indicators for DOD stressors were contract awards, payroll, and civilian and military employees. Contract spending was used directly to indicate the level of DOD contribution to the State economy. For payroll, a ratio of dollars per employee (military and civilian) was used. Gross earnings alone was thought to be misleading, as differences in the number of personnel, housing arrangements, existence of exchanges and recreational facilities on a property would alter the level of earnings that entered the local economy. The ratio used is a per capita earnings figure, and is an indicator of differences in the degree to which DOD employees can contribute to the local economy. The final factor was a ratio of employees per property area. This is a density figure and indicates whether the potential per person contribution to the local economy is significant compared to the amount of land withdrawn from local use.

#### Results

Table 2 lists the results of the summary-level risk assessment. Eight States with a total of 99 DOD properties were determined to be at risk from community conflict, and 13 properties were assessed at a high risk level. The exogenous factors were all ranked in descending order by factor value, where the highest value indicated the most risk (factor values are given in Appendix A). Only the top 10 ranked States for each factor were considered in risk assessment. (This is approximately the top 20th percentile for the set of 49 States.)

Table 2. Summary-level risk assessment.

		mma	Commu				Econo	omic Str	ength	-	Prox'ty			DoD		
	DOD		Metro		UrDvlp	Popu	lation	Earnin	gs Per	UrDvip	%		Cntrct	Pyroll	Empl	At
	Prpty	Popn	Popn	Area	Area	Gro		Capita		Grwth		At Risk	\$	\$ Per	Per Area	Risk Lvi
State	Cnt	Dnsty	%	%	%	90-97	80-90	90-97	80-90	87-97	in MSA	nisk	Amt	Empl	Alea	
AL	7										7	Y			3	Н
AZ	13		10	9		2	2				1	<u> </u>	10	40	3	
AR	4			-			4	4			6	Y	49	40	10	М
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CO	8	5	9	5	4	3_		3	2		1	Υ			43	L
CT DE	1	8	9	10	6						1		5		40	
DC	3	1	1	1	0			5	7	<u> </u>	1	Y		6	45	М
FL	24		5	8	7		3			7	2	Y	46			L
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IL	4										1			8	44	
ΙN	5														7	
IA	2													45	9	
KS	6													4		
KY	3									10				1_		
LA	4		-					8		<u> </u>	9					
ME	2								6	9		Υ	42			L
MD	10	6	6	6	5				10	ļ	10	Y	45			L
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SC	7		۲	<u> </u>	<del>-</del>	<del> </del>				3				10	36	
SD	1	ļ — ——	<del> </del>	<b></b>									3			
TN	2		<del> </del>			1		6		5				46		
TX	18					8	6			L	8		47			
UT	9					4	9	2							5	
VT	2										1		4	48		
VA	22										5	<u> </u>	48			
WA	9					7	8			ļ	3			ļ <u>.</u>	<u> </u>	
W۷							<u> </u>			2			8	43	<u> </u>	
WI	2		ļ	<b>!</b>					<u> </u>		ļ	<del>                                     </del>	<u> </u>	42	4	
WY	1				<u> </u>	<u> </u>	455	-			1	- 00	1 00	9	37	
Prptys:		53	105	101	69	93	136	61	55	72	194	99 32.8	7.3	53 17.9	89 29.5	
% of Pn	operties:	17.5	34.8	33.4	22.8	31.1	45.4	20.5	18.5	24.2	64.6	32.0	7.3	17.8	25.0	Ц

All installation properties within a State are considered to be at risk from community-installation conflict if the State had, for this analysis, a top 10 ranking in at least one factor for each of the stressors. For example, the 13 installation properties in Arizona are determined to be at risk because the State is ranked for two community size factors, two community growth factors, and the proximity factor. The 11 properties in Georgia were determined at this level of analysis to be at relatively lesser risk because the State is not ranked for community size factors.

The DOD factors are only incorporated for determination of risk level. The DOD factors were all ranked in ascending order by factor value, reflecting that risk is associated with low values rather than high values. For example, the lowest contract dollars awarded to a State (small DOD contribution to the economy) would put the properties in that State at the highest risk relative to other States (factor values are given in Appendix A). Table 2 shows both the top 10 (most risk) and the bottom 10 (least risk) rankings. The 13 properties in Arizona are considered to be high risk because of a top ranking for one of the DOD factors.

#### **County of Residence Study**

The county of residence level study determined risk by associating properties with a home county and evaluating potential community-installation conflict with factors derived from county characteristics. This scale of analysis provides a more accurate representation of installation properties and their surroundings.

Some of the same indicators (population, per capita earnings) from the summary scale carry over to this study. However, other indicators for the extent of urbanization and DOD influence are included. Two urbanization indicators (cities and urbanized area) were available with explicit spatial references—a single point location for cities, and a location and extent for urbanized area. These were integrated with the locations of military properties in the GIS, and distance analysis functions were used to develop factors reflecting the unique relationship between each property and its surrounding urban areas. Thus, while some of the factor data are identical for all properties within one county, the final property level risk assessment does reflect unique community-installation relationships.

DOD indicators are the REIS military earnings and employment information. Since this information cannot be directly related to any installation property, is not limited to active duty installation personnel, and does not include civilian employees of installations, the derived factors may over- or understate the economic influence of the military in the area.

#### Factor Development

Two exogenous indicators from the summary level study (population and per capita earnings), were used for the county of residence study. Additional indicators were city population, urban and built-up land, and urbanized areas. Appendix A gives these indicator data and related factors. Indicator data were often used directly because they provided relevant information about the current state of communities. Indicators were also transformed into other stress measures by considering data with respect to change (time series), location, and the size of the county of residence.

Indicators for the community size stressor were total population, city population, and urban and built-up land. Four factors were used for the risk assessment. Total population for 1997 was used as a factor because it provided a current measure of size compared to the other data available for this study scale. Total population and county area for 1997 were transformed into a density factor. Cities were matched to military properties using the GIS and the population data summarized to describe city population within 20 miles of each property. Figure 6 shows how city population was determined for three properties in the Atlanta area. This is used as a community size factor because it measures the number of people in neighboring communities. Though it is constrained by proximity, it is not used as a proximity factor because the cities are represented as points and do not completely describe the physical relationship to military properties. The final factor was a ratio of urban and built-up land (1992-1993) relative to the county area.

Indicators for the economic strength stressor were growth in population, growth in per capita earnings and total per capita earnings. Four factors were used for the risk assessment. Growth factors were derived from time series data as the percentage increase in the data from one period to the next. For population, two time periods were selected: 1990 to 1997, and 1985 to 1990. For per capita earnings, one growth rate for the recent time period was used. Per capita earnings were also used directly as a factor, since there was sufficient differentiation in the values across properties and the related ranking indicated areas with currently strong economies. There was no time series developed land data available for this study scale, and therefore no measure of strength indicated by physical growth in terms of land development.

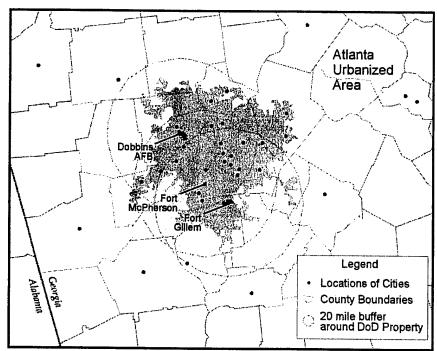


Figure 6. Example of city population and urbanized area proximity for Atlanta, GA area.

Table 3. Proximity classification scheme.

Proximity Class	Relationship of Property to Urbanized Area (UA)	No. of Properties
1	Completely contained within UA	35
2	Partially within or adjacent to UA	101
3	Within 5 miles of UA	33
4	Within 5 to 10 miles of UA	21
5	Within 10 to 20 miles of UA	20
6	More than 20 miles from UA	91

One factor for the community proximity stressor was derived from urbanized area data. Using the GIS distance functions, a six classification scheme was developed to represent the relationship between properties and their nearest urbanized area. The classification scheme is described in Table 3. Given the resolution of the available data, a more specific distance measure was inappropriate.

Indicators for DOD stressors were military employment and total employment, both identified in the REIS information. Military employment and total employment for 1997 were transformed into a ratio indicating the current level of military contribution to the local economy. Military employment for 1997 was also compared to military property area to create a local military density figure. The final factor was a change in military employment between 1985 and 1997. This ratio shows the relative level of decline (and in some rare instances, growth) in the military presence in the area.

#### Results

Table 4 lists the results of the county of residence level risk assessment. The table is organized by service branch and then by State. Eighty one DOD properties were determined to be at risk from community conflict, of which 33 were assessed at a high risk level. The breakdown of at-risk properties by service is: 24 Air Force (30 percent of AF properties studied), 21 Army (10 percent), 2 Marine Corps (12 percent) and 34 Navy holdings (36 percent).

The exogenous factors were all ranked in descending order by factor value—where the highest value indicated the most risk (factor values are given in Appendix A). For factors derived from county level indicators (e.g., population, earnings, employment) rankings were assigned to the counties rather than the properties. For example, Fort Dix and McGuire AFB have identical rankings for many of the community size and economic strength factors since both are located in Burlington County, NJ. The top 42 ranked counties/properties for each factor were considered in risk assessment. (This is approximately the top 20<sup>th</sup> percentile for the set of 214 resident counties.)

There were two factors not related to county of residence that required a modified ranking selection process. The first, city population within 20 miles, resulted in 231 unique values, including 45 properties that had no cities within the specified distance. In keeping with the 20<sup>th</sup> percentile breakpoint, the top 60 ranked properties for city population were considered in risk assessment. The second factor, urbanized area proximity class, prohibited differentiation of properties and required a completely different approach. Given the number of properties close to an urbanized area, and only one factor representing proximity, any property with a proximity class of 1, 2, or 3 was considered at risk for proximity.

Properties are considered to be at risk from community-installation conflict if they had a top ranking in at least one factor for each stressor. Table 4 may appear incomplete because it only shows properties that were determined to be at risk for all stressors. In many instances, property had top rankings for either community size or economic strength but not both, so they do not appear in the "at risk" list. Appendix A shows the top rankings for all properties.

Areas with significant numbers of at-risk installations include the Pacific Ocean coastal zone (19 properties), the Colorado front range (5 properties), the San Antonio, TX area (5 properties), and the Chesapeake Bay area (17 properties). Figures 7, 8, and 9 present three maps showing the western, central, and eastern United States and identify the location of at-risk properties by their county of residence.

Table 4. County of residence risk assessment—at risk properties.

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	-					3	COMMUNICATION SIZE				Economic Strength				2		
						Population	tjou	UrDvlp	Poo	Population	Earn. Per Capita	Capita	Proximity	Ī	Military Employment	yment	-
Š		Area	į	Resident	Total	Dnstty	City (20mi)	ပိ	Gro	Growth %	Growth%	•	Proximity	% of	Change	Per DOD	Risk A
ide Debi	Property	(acres)	ī	County	1997	1997		%	90-97	85-90	90-97	1997	Class	Tempi	85-97	Area	Level
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*	Luke AFB	4199	ΥZ	Maricopa	က		23		13	34			2		32	153	≥
¥	Davis-Monthan AFB	10633	¥	Pima	₽				41				2		202		٦
¥	Travis AFB	7580	క	Solana			88			8			2		ಜ		Ξ
₽	Edwards AFB	300723	- 1	Kem	ၕ					88			8			5	Ξ
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\	Air Force Academy		- 1	El Paso	88				೫		88		2	173	ଛ		Σ
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본	Nellis AFB	6400	≥	Clark	12		51		2	4		34	2				Σ
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¥	Randolph AFB	П	П	Bexar	의	92	ಜ	53			24		2		48		Ξ
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Army	Camp Robinson	П		Pulaski				æ			23	35	2		33		I
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Army	Camp Parks	П	П	Alameda	6	6	21	21		7		15	2	22	5	146	I
Army	Buckley ANGB	П	П	Arapahoe	용	42	17		æ		22	6	2	38	199		Σ
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Army	Fort McPherson	П		Fulton	ន	19	ස	7			0	5	1	16		166	Σ
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Army	Army Sunflower AAP	- 1	1	Johnson		္တ		3	೫	23	53	7	3	36			Ξ
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			Γ			2	Community Cito			Foods	Economic Strongth				200		
						Population	270	UrDvlo			Earn. Per Capita	Capita	Proximity	×	Military Employment	vment	
				Dooiloo	-		000		Population Growth %	ation *	Š	•	UA Provimity	3	1	200	At Diet
Dept.	Property	(acres)	ST	County	1997	1997	City (20mi) 1990	%	76-06	85-90	Growm% 90-97	1997	Class	% of Tempi	Change 85-97	Per DOD Area	Level
Army	Natick Soldier Center	226 N	MΑ	Middlesex	8	11	18	15			36	9	2	40	12	163	Ή
Army	Aberdeen Proving Ground		MD	Harford			25			25			3				Σ
1	Fort Meade	5415 N	MD	Anne Arundel	39	24	3	30				17	2			148	٦
Army	Fort Bragg	160817 N	NC	Cumberland				40			3		2	205			٦
Army	Picatinny Arsenal	6493	R	Morris	43	59	41	27				1	2	1			포
Army	Fort Monmouth	1101	NJ	Monmouth	31	50		22				10	1				Σ
Атту	Fort Dix	30997	S	Burlington				39				22	3		6		ェ
Army	Army  Camp Bullis	12000	ΤX	Bexar	10	56	34	29			24		2		18		Ŧ
Army	Fort Sam Houston	3260	ΤX	Bexar	10	56	34	59			24		1		18		ェ
Army	Camp Williams	25000	UT	Utah			48		17		14		2				N
Army	Fort Belvoir	8656	٧A	Fairfax	14	9	6	11		42		4	2		31		ェ
Army	Fort Story	1451	٧×	Virginia Beach		13	37			12			2	179	24		Σ
MC	Camp Pendleton	186471 (	S	San Diego	2	39	31			28			7		-		ェ
MC	Quantico MC Base	60483	×.	Prince William		32			36	7			က		204		_
Navy	Concord Ocean Terminal	7600 (	S	Contra Costa	16	22	29	24				11	2	23	42		ェ
Navy	Seal Beach NWS - Concord	2200 (	CA	Contra Costa	16	22	16	24				11	2	23	42		Ξ
Navy	Stockton Nvl Communication	2787 (	క	San Joaquin	34					35			2	9			포
Navy	Port Hueneme CBC		5	Ventura	24							8	2				≊
Navy	Point Mugu NWS	4490	CA	Ventura	24							30	2				Σ
Navy	Seal Beach NWS	16823 (	CA	Orange	4	3	2	9				14	1		14		Ŧ
	Seal Beach NWS - Fallbrook	8851 (	CA	San Diego	2	39				28			2		1		エ
Navy	Miramar MC Air Station	23606 (	CA	San Diego	2	39	12			58			2		-		Ŧ
Navy	San Diego Nvl Submarine Base	314 (	₹	San Diego	2	39	13			28					-		Ξ
Navy	North Island NAS		S	San Diego	2	39	13			28			7				포
Navy	San Diego Nvl Station		1	San Diego	2	33	14			83			-				ᄑ
Navy	Coronado Nvl Amphibious Base	1065	Ą	San Diego	2	33	14			88			2		-		=
Navy	North Isl NAS - Imp'l Beach		Ą	San Diego	2	39	15			82			-		-		Ξ
Navy	Anacostia Nvl Station (NDW)	292	20	Washington	35	1	4	1			32	8	+			167	_
Navy	Nvl Research Lab. Washington		വ	Washington	35	-	မ	-			32	8	-			167	
Navy	Great Lakes Nvl Trng Cntr	1030	اب	Lake	32	21	30	26			16	2	2			169	_
Navy	Naval Academy	2001	Q	Anne Arundel	33	24		8				17	2			148	_
Navy	Naval SWC- Indian Hd		Ð	Charles			26			8			8				Σ
Navy	Earle NWS - Waterfront	٦	- 1	Monmouth	31	8	-	22				9	-				Σ
Navy	Earle NWS - Mainside		- 1	Monmouth	31	82		22				9	2				≥
Navy	Navy   Lakehurst NASC	7431	Z	Ocean	37	35		37				38	2		-		∑

			_			S	Community Size			Esono	Economic Strength				8		
						<b>Population</b>	tion	UrDvlp		-cleal.	Earn. Per Capita	Capita	Proximity		Military Employment	yment	
		Area		Resident	Total	Dnsity	Dnsity City (20mi) County	County	<u> </u>	Growth %	Growth%	"	O.A. Proximity	jo %	Change	Per DOD	At Risk
Dept.	Property	(acres)	ST	County	1997	1997	980	<b>3</b> e	90-97	85-90	20-97	1997	Class			Area	Level
Navy	Defense Supply Cntr - Columbus	551	동	Franklin	13	10	40	14				భ		6		162	Σ
Nav	Navy Willow Grove NAS	<u>=</u>	A	Montgomery	22	16	7	10				က	2	42		159	Σ
Navy	Newport Nvl Training Cntr	1214	æ	Newport		28	25					24	2			157	
Naw	Navy Memphis NAS	3450	N	Shelby	- 11	23	23	19			17	25	8		-	139	2
Navy	Camp Peary	9274	٧A	York		88			6				3		<u>=</u>		_
Navy	Yorktown NWS	13248	٨	York		æ			6				2		<u>=</u>		
Nav	Navy Yorktown NWS - Cheatham	1579	⋠	York		38			6				2		<u>8</u>		<b>L</b>
Navy	Little Cr. Nvl Amphibious Başe	2120	×	Virginia Beach		13	28			12			2	179	24		Σ
Navy	Oceana NAS	24534	≸	Virginia Beach		13	36			12			_	179	24		Σ
Naw	Navy Dam Neck Training Cntr	1303	≶	Virginia Beach		13	43			12			_	179	24		Σ
Naw aw	Navy Oceana NAS - Fentress	2406	⋠	Chesapeake		43	36		12	23			2		203		٦
Nav	Navy Bangor NM Submarine Base	6527	Α×	Kitsap		\$	20		24	32			2	£	213	147	
Nav	Navy Puget Sound Nvf Shipyard	1577	WA	Kitsap		9	45		24	32			-	- 68 180	213	147	

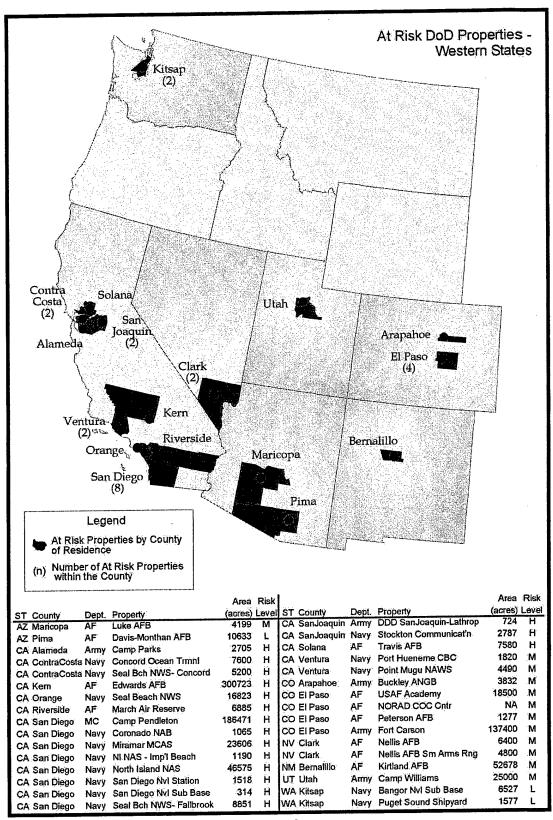


Figure 7. Location of at risk properties—Western States.

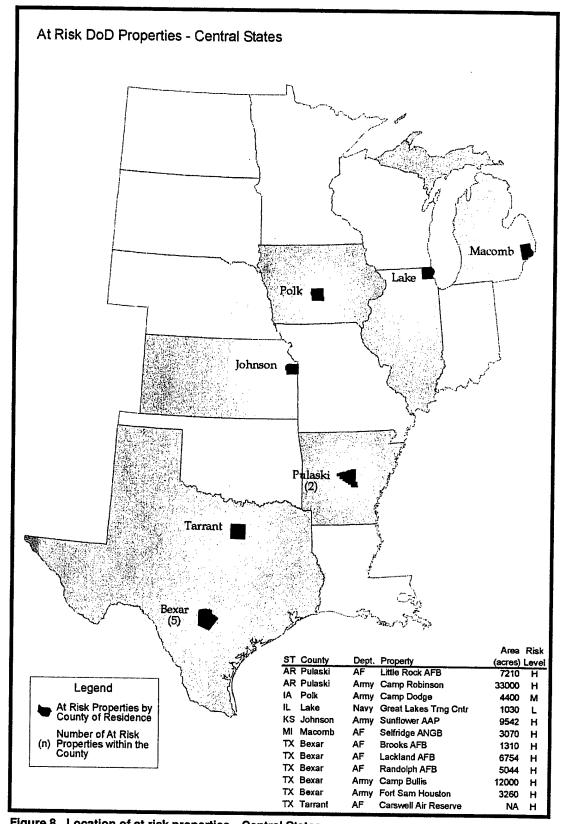


Figure 8. Location of at risk properties—Central States.

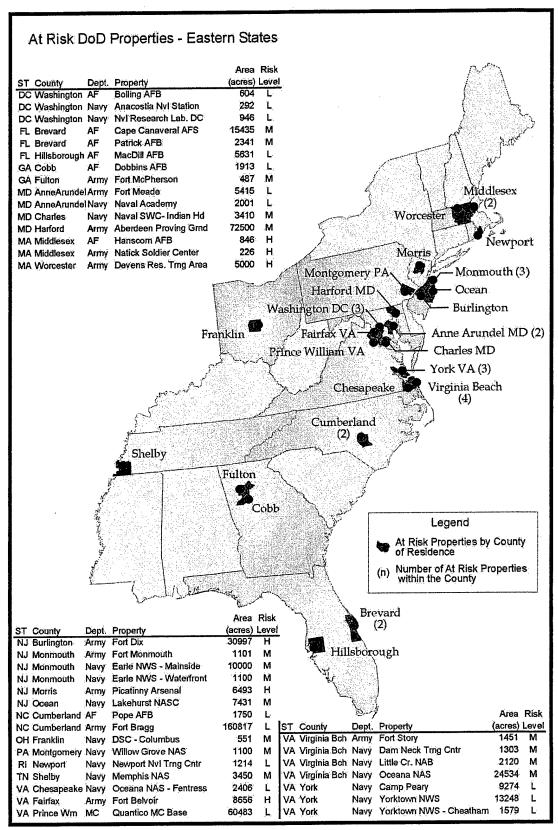


Figure 9. Location of at risk properties—Eastern States.

The DOD factors are only incorporated for determination of risk level. These factors were all ranked in ascending order by factor value, reflecting that risk is associated with low values rather than high values. For example, the lowest ratio of military employment to total employment would put a property at the highest risk relative to other properties (factor values are given in Appendix A). While all the DOD factors for this study scale were county level data, the risk breakpoint was not always 42. There were many duplicate values for the military employment per DOD area factor, particularly at a high risk level (there were 14 properties from 12 counties that had military employment of 0 percent). The breakpoint for this factor was 33. Risk level assessment resulted in a high level of risk when rankings were high (top 42 or 33) and a low level of risk when rankings were low (rankings of 138 through 214 or 136 through 169) rankings.

Areas with significant proportions of high risk installations were California (17), Texas (6), and Massachusetts (3). By comparison, areas with significant proportions of relatively lesser risk installations were Washington, DC (3) and North Carolina (2). However, these risk level assignments may be inappropriate due to the data available for DOD risk indicators. For example, the high risk levels for California properties are the result of significant reductions in military employment between 1985 and 1997. Because California experienced numerous base closures in this period, the changes in military employment are more likely related to these closures than to reductions at the properties that have remained continuously operational. Specific information about each property would improve DOD factor development.

#### Comparison of Study Results

Table 5 presents a side-by-side list of the results of the State level and county of residence level risk assessments. Two comparative statistics are included, the percent of risk over- or understated at the State level as compared to the county of residence level.

The scale of the examination clearly affects the results. For 25 of the 46 States, risk assessment was different for the State versus county of residence scale. It seems obvious that the indicator data employed for the county of residence scale would provide a more meaningful measure of the communities that are likely to have interactions and conflicts with the military properties. This coincides with studies evaluating the economic impact of base closures, which found that effects were highly localized (Dardia et al. 1996).

Table 5. State and county of residence level risk assessments.

				by Study Le	e level risk a		parison
		State St	ummary		of Residence		
State	DOD Prpty Cnt	At Risk (Y/N)	At Risk Level	At Risk (prpty cnt)	At Risk Level	% Risk Overstated at ST Level	% Risk Understated at ST Level
AL	7	N		0		NA	0.00
AZ	13	Υ	Н	2	1 M; 1 L	84.62	NA
AR	4	N		2	2 H	NA	50.00
CA	36	Y	М	19	17 H; 2 M	47.22	NA
CO	8	N		5	5 M	NA	62.50
CT	1	Y	L	0		100.00	NA
DE	1	N		0		NA	0.00
DC	3	Y	М	3	3 L	0.00	NA
FL	24	Y	L	3	2 M; 1 L	87.50	NA
GA	11	N		2	1 M; 1 L	NA	18.18
ID	5	N		0		NA	0.00
IL I	4	N		1	1 L	NA	25.00
IN	5	N		0		NA	0.00
IA	2	N		1	1 M	NA	50.00
KS	6	N		1	1 H	NA	16.67
KY	3	N		0		NA	0.00
LA	4	N		0		NA	0.00
ME	2	N		0		NA	0.00
MD	10	Y	L	4	2 M; 2 L	60.00	NA
MA	5	Y	L	3	3 H	40.00	NA
MI	2	N		1	1 H	NA	50.00
MS	5	N		0		NA	0.00
МО	3	N		0		NA	0.00
MT	2	N		0		NA	0.00
NE	2	N		0		NA	0.00
NV	10	N		2	2 M	NA	20.00
NJ	7	Y	М	6	2 H; 4 M	14.29	NA
NM	6	N		1	1 M	NA	16.67
NY	5	N		0		NA	0.00
NC	11	N		2	2 M	NA	18.18
ND	2	N		0		NA	0.00
ОН	3	N		1	1 M	NA	33.33
OK	5	N		0		NA	0.00
OR	4	N		0		NA	0.00
PA	6	N		1	1 M	NA	16.67
RI	1	N		1	1 L	NA	100.00
SC	7	N		0		NA	0.00
SD	1	N		0		NA	0.00
TN	2	N		1	1 M	NA	50.00
TX	18	N		6	6 H	NA	33.33
UT	9	N		1	1 M	NA	11.11
VT	2	N		0		NA	0.00
VA	22	N		10	1 H: 4 M; 5 L	NA .	45.45
WA	9	N		2	2L	NA NA	22.22
WI	2	N		0		NA	0.00
WY	1	N		0		NA	0.00
Prptys:	301	99		81			
% of Pro		32.9		26.9			

#### Area of Influence Example Study

The original risk assumption was guided by a hypothesized risk continuum represented by five military installations rated from high to low: Camp Pendleton, Fort Carson, Eglin AFB, Fort Benning, and Fort Riley. The county of residence study found Camp Pendleton and Fort Carson to be at risk, but did not identify the other three. Fort Benning was found to be at risk for economic strength and proximity, Eglin AFB for proximity alone, and of the five, Fort Riley was found to be at relatively least risk. This ordering of "at risk" stressors may indicate that the continuum should be modified so that Fort Benning represents medium risk.

Regardless of any ordering change, the low rankings for community size factors for Fort Benning and Eglin AFB contradict expectations. This is especially true at Fort Benning, where recent trends of development pressures from neighboring Columbus, Georgia indicate that Fort Benning may already be at risk. For example, Columbus's Military Affairs committee initiated a Land Exchange Program more than 10 years ago with the objective of pursuing land exchanges with Fort Benning as a way to address the community's perceived shortage of land for industrial development (Wilkens 1999).

To investigate whether Fort Benning was incorrectly assessed because of data mismatches or resolution problems, this study added a third level of assessment, a local area of influence investigation. This is a detailed inspection of both changes to the demographic and economic conditions and the physical conditions around the installation, actually broader than the county of residence level as it considers all neighboring counties and additional time-series analyses. Because of the additional complexity, this level is an illustration limited to one property. The emphasis is on actual indicator data rather than any ranked factors.

Figure 10 shows the location of Fort Benning. The installation occupies land in three counties (Chattahoochee and Muscogee in Georgia, and Russell in Alabama). Fort Benning's cantonment is located in Chattahoochee county, and all the military earnings and employment data are reported there. With the county of residence study limited to one home county, Chattahoochee data indicated that Fort Benning was the significant economic driver and faced little risk from private sector growth. Eighty-eight percent of the county employment for 1997 was attributable to the military. County population was low (16,589 in 1997) and had declined (from 19,408 in 1985), while per capita earnings were low (\$19,068 in 1997), but had increased rapidly (47 percent growth rate between 1990 and 1997).

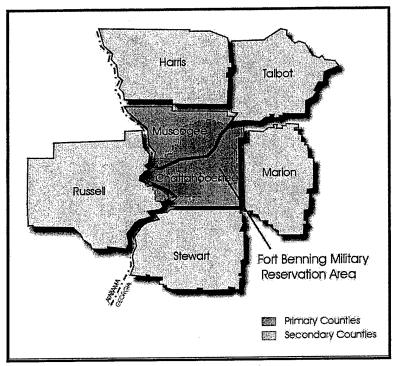


Figure 10. Fort Benning and adjacent counties.

A review of data for surrounding counties indicated that an area-wide examination could significantly change the risk assessment for Fort Benning. Columbus (Fort Benning's neighboring community to the north) is located in Muscogee County. Here, even though Fort Benning is a significant land owner, the data show that population is much higher than Chattahoochee County (182,830 in 1997), while only 3.9 percent of the employment was attributable to the military. To balance the inaccurate separation by county of the private and military sectors, the area of influence investigation categorized Chattahoochee and Muscogee both as the primary counties with significant interactions with Fort Benning. In addition, it categorized five other neighboring counties as having lesser, but still important, interactions indicating broader or longer term potential impacts for Fort Benning.

The following graphs and charts highlight characteristics that give a more precise representation of risk from community-installation conflict at Fort Benning. Figure 11 shows population statistics for the period 1970 to 1997 according to the primary and secondary county categorization. As described earlier, Chatahoochee County population is low, because it largely consists of the residents of Fort Benning. With the primary county categorization, the population associated with Fort Benning increases dramatically (199,419 for 1997). This change in assessment approach changes Fort Benning's ranking in the 1997 population factor for community size from 203 to 83.

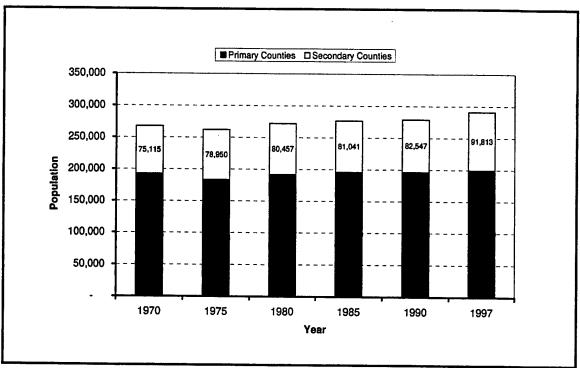


Figure 11. Fort Benning area population, 1970-1997.

Figures 12 and 13 show population and per capita earnings growth for the same time span, provide a basis to compare the primary and secondary county statistics to the Georgia State totals. Population growth in the Fort Benning area had been well below the State situation until the 1990s. Growth in the primary counties remains low; the assessment approach change has no effect on Fort Benning's ranking with respect to population growth. Growth in the secondary counties appears to be approaching the Georgia State population growth rate; these counties are still small in total population so their high growth rates should not yet be a source of risk.

Per capita earnings growth in the Fort Benning area has consistently matched or exceeded the State situation. Growth for both primary counties is similarly high, so the assessment approach change had no effect on Fort Benning's ranking, which was already high (8). Not illustrated here is the effect of the primary county categorization on 1997 per capita earnings itself. Per capita earnings was \$19,068 for Chattahoochee County and \$22,064 for Muscogee. An appropriate combined county per capita earnings figure of \$21,738 was calculated as a weighted average considering total employment for each county. This change in assessment approach changes Fort Benning's ranking in the 1997 per capita earnings factor for economic strength from 148 to 88.

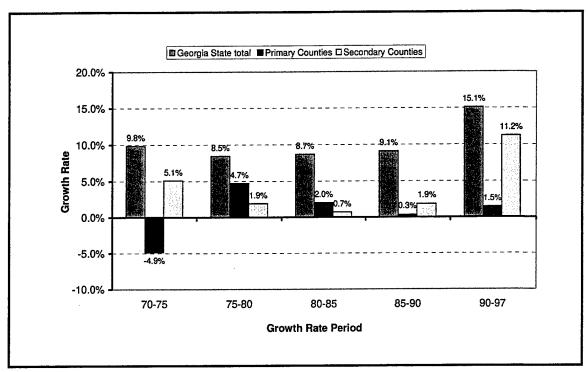


Figure 12. Fort Benning area population growth, 1970–1997.

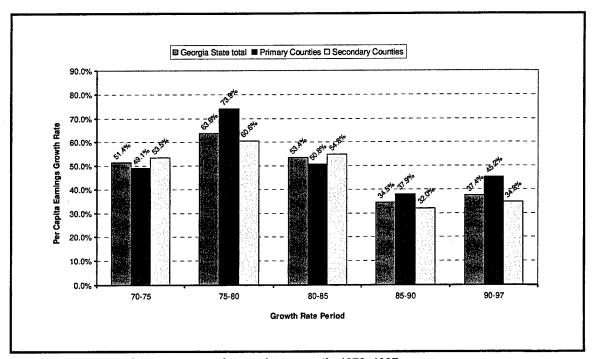


Figure 13. Fort Benning area per capita earnings growth, 1970-1997.

The information on area changes in population versus earnings gives offsetting indications of the potential for community-installation conflict. However, changes in the physical environment show recent, significant physical development that points to increasing potential for risk. Figure 14 shows urban development in the Columbus, Georgia-Phenix City, AL urbanized area.

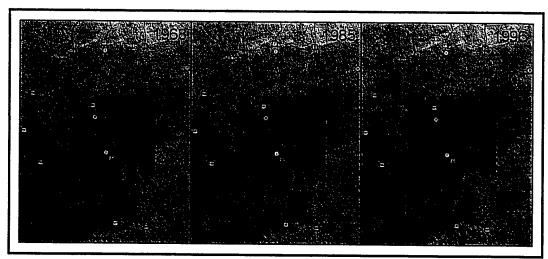


Figure 14. Fort Benning area urban growth, 1968-1996.

Urban extents for 1968 and 1985 were taken from historic USGS 7.5 minute series topographic maps. The 1996 extents was taken from the urbanized area boundaries data and matched against recent USGS 30m land cover data. The minor changes in developed areas between 1968 and 1985 coincide with the declining and low population growth trends. The major changes between 1985 and 1996 show physical growth that is substantially greater than population growth, indicating sprawl development or investment in infrastructure and commercial/industrial facilities that will provide private sector employment opportunities and support future population growth.

The final characteristic examined is the DOD contribution to the local area. Figure 15 shows employment trends and the relationship between military and other employment. The combined information for the primary counties presents a less optimistic assessment of Fort Benning's contribution to the local economy. While total employment has been growing steadily (represented by the line), military employment has been declining (ratio represented by bars). The 10 percent military employment ratio may still place Fort Benning as one of the largest area employers, but the downward trend can only be expected to continue.

Fort Benning proves to be a good illustration of how choice of scale may change the assessment of risk and how important detailed, local area inspection is in identifying risk from potential community conflicts.

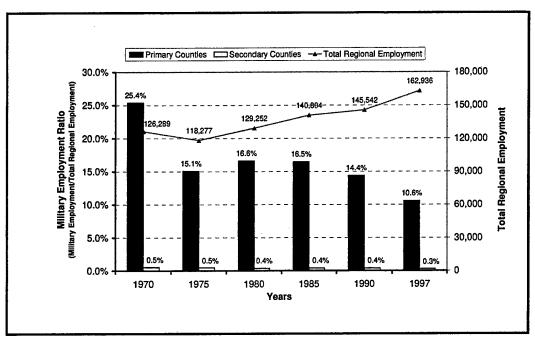


Figure 15. Fort Benning area military employment versus region employment, 1970-1997.

#### **Low Density Urban Development**

Outside the installation boundary, low density community growth patterns are beginning to dominate the landscape. Some facts related to the sprawling changes:

- From 1970 to 1990, 19 million acres of once-rural land in the United States became urban (Sorensen, Greene, and Russ 1997).
- In 1920, 50 percent of the U.S. population lived in cities.
- In 1960, 70 percent of the U.S. population lived in cities.
- Today the United States is about 80 percent urban.
- From 1970 to 1990:
  - the density of urban population in the United States decreased by 23 percent (Brown et al. 1998)
  - more than 50 percent of the population now live in suburbs.
- From 1969 to 1989:
  - the population of the United States increased by 22.5 percent
  - the number of miles driven by that population increased by 98.4 percent (FHA 1990).
- From 1983 to 1987:
  - the population of the United States increased by 9.2 million people
  - the number of cars and trucks increased by 20.1 million (FHA 1996).
- Between 1970 and 1990:
  - New York's population grew 5 percent and land area grew 61 percent

- Chicago's population grew 4 percent and land area grew 46 percent
- Cleveland's population declined 11 percent, but land area still grew 33 percent.

What does this mean? For the individual it can mean increased travel times, congestion, and unproductive hours from busy schedules. For a community, it means that competition for land has intensified and development has spread to once isolated areas. And for the U.S. military establishment, it means more complaints from the installations' new neighbors about the noise, dust, and traffic generated by military operations. It also means an increased opposition to the opening of new areas of the installation to training exercises and increased pressure to maintain natural habitat for threatened and endangered species due to habitat loss outside the installation.

The location of military installations provides clues to the potential extent of the conflict between military installations and sprawling growth. Figure 16 shows the distribution of approximately 500 military installations in the continental United States. Note the clustering of installations in the southern half of the United States, specifically the Atlantic and Pacific coastal regions (26 percent and 20 percent of the total, respectively). These areas are currently pressured by concentrated urban growth.

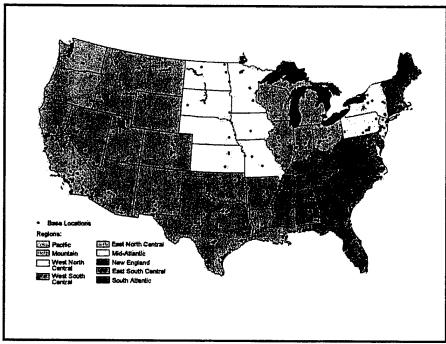


Figure 16. The spatial distribution of Department of Defense installations within the 48 contiguous states.

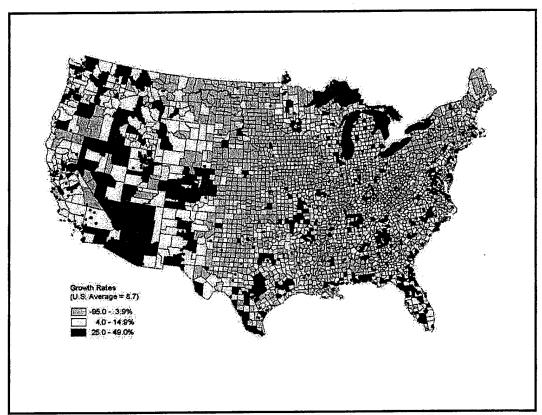


Figure 17. U.S. population growth rates by county with military installation locations (black dots), 1990 to 1997.

When DOD military installation locations are compared with census data that identify county level growth patterns, we find that the fastest growing counties in the United States frequently contain military installations. Figure 17 groups the counties in the continental United States into three growth classes (based on comparisons of 1990 and 1997 census data). The fastest growing class reflects an increase in county population that exceeds 15 percent (darker gray) Altogether, 18 percent (82/448) of the installations examined are located in part or in total within this group of rapidly growing counties.

#### **At-Risk Facilities**

As defense weapons, strategies, and tactics evolve, military land managers are being forced to re-evaluate the land use requirements needed to support the military mission "inside the fence line." Each new generation of defense weapon systems and tactics has required increasing land areas for effective and realistic training (Kingston 1999). Yet, due to base closures, and difficulties in acquiring new lands for military installations, providing adequate lands for the sustainment of defense capabilities has become a challenge (Goran et al. 2000). Compounding the issue are increasing land use constraints due to resource protection

issues and civil community complaints concerning noise and dust. (Such constraints are generated by pressures outside the installation boundary [Stenitz 1997].)

#### **Cautions for Interpretation**

Several limitations to the current study should be considered in evaluating its results. They mainly relate to the use of a relative ranking approach and the effect of level of data resolution.

The relative ranking approach was necessary because of the lack of explicit knowledge of at risk standing and the lack of known thresholds for causative factors. That is, we neither know which installations are or are not actually at risk (based on observation), nor how much the neighboring community can grow before it begins to impose constraints on an installation's land use. Given knowledge of either of these, we could solve for the other. The relative ranking approach is a way to begin determining both of these aspects, by encouraging review and discussion.

The selection of a 20th percentile as a cutoff for risk potential was somewhat arbitrary. It is based on the assumption that not all properties are at risk, and the proportion seems reasonable given the number of properties included in the study.

Properties were attributed with indicator data that were aggregated in ways that aided in collecting and sharing data. These aggregations (State or county) enforce certain equality assumptions about the data; for example, the assumption that per capita earnings are uniform throughout the area of aggregation. The unequal distribution of resources within the aggregation area may misstate the situation for a particular military property, as shown by the changes in at risk determinations between the State and county level of study.

The physical boundaries imposed by these data aggregation methods have other effects. These boundaries are artificial in that they do not represent limits to the exchange of resources and conflicts. Because of data matching and analysis complexities, this study was limited to associating military properties with only one State or county. However, an installation may be at risk from population growth outside its State or county of residence because of actual proximity. A more accurate assessment would require a more spatially relevant method of collecting and attributing data.

# 4 Summary and Recommendations

#### **Summary**

This research has identified and evaluated indicators of risks to military lands due to exogenous effects of local area growth. A variety of demographic, economic, and land use data were gathered and examined as potential risk indicators. Traditional data analysis and spatial modeling techniques were incorporated within a geographic information systems (GIS) framework. Several data summarization levels and spatial scales were evaluated to determine if different risk assessments might be derived, and to suggest monitoring approaches for continuing assessment.

This study performed a preliminary investigation into developing a rating system of DOD properties at risk from community-military conflict. Because of a lack of any demonstrable risk cases or measures to serve as a calibration mechanism, the indices were derived using relative rankings. Comparisons were made among the installation properties studied, so that some properties are identified as more at risk than others, based on how a particular factor compares to others. The relative ranking approach was necessary because of the lack of empirical data documenting or identifying known "at risk" installations and the lack of knowledge about possible causative factors. The level of aggregation of information required by lack of detailed data also highlights the difficulty of making a comprehensive evaluation. The case study of Fort Benning illustrates how scale may change the assessment of risk and accentuates the importance of detailed, local area inspection for identifying potential community conflicts.

As competition for land has intensified, so has the disagreement over how to balance land-use economics and the conservation of natural resources. To date, the controversy has focused on private property rights and the appropriate role of government in managing lands. The lack of a genuine dialogue between advocates of public and private interests has led to a paralysis of effective decision-making at every level of government.

The California Legislation enacted begins to addresses this paralysis. The California Defense Retention and Conversion Council Act establishes a council within State government comprised of several cabinet agencies. The council also

includes representatives of local government, business, labor—and most importantly—military representatives. The purpose of the council is to study encroachment on military lands in California, and to provide advocacy within State government for military operations, particularly as they are impacted by State regulatory action. This effort to facilitate community-installation communication is supported by two Executive orders, EO12512 and EO12371, which direct installation master planning efforts to review and coordinate planning goals and objectives with the communities surrounding DOD installations in order to enhance the installations value to the public.

These new legislative efforts and executive orders understand that military installations represent unique and difficult to replace assets. The encroachment of rapid urban growth is beginning to compromise the fundamental mission of some of our military installations. Possible strategies for coping with this problem include:

- identifying and prioritizing installations at risk
- developing and nurturing installation and community dialogues (e.g., the California Defense Retention and Conversion Council Act)
- developing a comprehensive understanding of the dynamics of urban change outside the installations (with the use of growth analysis models and alternative scenarios)
- understanding the future environmental impacts associated with change scenarios
- the development of stock aggregation and spatial evaluation techniques to assess the installation and community land-use scenarios
- connecting the installation planning with local community planning efforts.

Such complex problems and solutions are not easily defined. As is often the case with planning-related problems, the first steps towards achieving a solution involves establishing a basic understanding of the problem. In this case, the realization that military installations are being impacted by urban expansion may help engender programs geared to understanding urban and suburban growth dynamics in relation to military lands.

#### Recommendations

Based on the results of this study to date, the following further study is recommended:

1. Analysis should be conducted at the installation level. Installation level analysis would require collection of installation specific information regarding employ-

- ment, spending, land use, activities with exogenous impacts on the community, and complaint/conflict data.
- 2. To facilitate analysis at this level and help ensure consistent evaluation, a decision-support tool should be developed that can be used to monitor the situation at the National scale.
- 3. Further study should also consider exogenous forces potentially affecting installation mission accomplishment. It may be important to consider how land use on installations may affect community-installation conflict. An effective approach to avoiding conflict needs to consider how changes in either environment affect the other.

## **Bibliography**

- AIA, Environmental Resource Guide, American Institute of Architects (John Wiley and Sons, New York, NY, 1996).
- Brown, Ann, Carrie Collins, Tim Frank, Kim Haddow, Ben Hitchings, Sam Parry, Ginger Vanderpool, and Lisa Wormser, "The Dark Side of the American Dream: The Costs and Consequences of Suburban Sprawl: The Sierra Club, 1998"), accessible through URL: <a href="http://www.sierraclub.org/sprawl/report98">http://www.sierraclub.org/sprawl/report98</a>
- Bryant, D., E. Rodenburg, T. Cox, and D. Nielsen, Coastlines at Risk: An Index of Potential Development-Related Threats to Coastal Ecosystems (World Resources Institute, Washington, DC, 1995), accessible through URL:

  www.igc.org/wri/indictrs/coastrs2.htm
- Costanza, R., H.E. Daly, and J.A. Bartholomew, "Goals, Agenda and Policy Recommendations for Ecological Economics," *Ecological Economics: The Science and Management of* Sustainability, R. Costanza, ed. (Columbia University Press, New York, NY, 1991).
- Dardia, M., K.F. McCarthy, J. Malkin, and G. Vernez, The Effects of Military Base Closures on Local Communities: A Short-term Perspective (Rand Corp., Santa Monica, CA, 1996).
- ECONorthwest and P. Brinckerhoff, The Full Social Costs of Alternative Land Use Patterns: Theory, Data, Methods, and Recommendations (U.S. Department of Transportation [DOT], Washington, DC, 1998).
- EDAW, Sustainable Planning; A Multi-Service Assessment (Naval Facilities Engineering Command, Washington, DC, 1999).
- Federal Highway Administration (FHA), Federal Highway Statistics 1990 (DOT, 1990).
- FHA, Federal Highway Statistics 1996 (DOT, 1996).
- Forrester, Jay W., Principles of Systems (MIT Press, Cambridge, MA, 1969).
- Goran, William D., Brian Deal, T. Aden, and D. Timlin, "Urban Growth: A Challenge to Sustaining U.S. Department of Defense Land Uses," Bioregional Planning: Resources Management Beyond the New Millennium, D.J. Brunckhorst, ed. (Harwood Academic, Amsterdam, 2000).
- Hannon, B., and M. Ruth, Dynamic Modeling (Springer-Verlag, New York, NY, 1994).

- Hood, I., and S. Moffatt, "Community Energy Planning for Revelstoke BC: A Case Study," Paper read at ACEEE Summer Study on Energy Efficiency in Buildings, at Pacific Grove, CA (1998).
- Kidd, C.V., "The Evolution of Sustainability," Journal of Agricultural and Environmental Ethics, vol 5, No. 1 (1992), pp 1-26.
- Kingston, COL David, Briefing, Engineer Combat Development Overview, presented at the U.S. Army Engineer School (1999).
- Ruth, Matthias, and Bruce Hannon, *Modeling Dynamic Economic Systems* (New York, NY, Springer-Verlag 1997).
- Skiles, David, Smart Places, E Series User Manual (EPRI, Palo Alto, CA, 1998).
- Sklar, F.H., and Robert Costanza, "The Development of Dynamic Spatial Models for Landscape Ecology," Quantitative Methods in Landscape Ecology, M.G. Turner and R. Gardner, eds. (Springer-Verlag, New York, NY, 1991).
- Sorensen, A. Ann, Richard P. Greene, and Karen Russ, Farming on the Edge. American Farmland Trust Center for Agriculture in the Environment (Northern Illinois University, DeKalb, IL, 1997).
- Stenitz, Carl, An Alternative Future for the Region of Camp Pendleton, California. Cambridge (Harvard University School of Design, Cambridge, MA, 1997).
- Wikens, Joy, Columbus Civilian-Military Initiative, Center for Economic Development Services (Georgia Institute of Technology: Atlanta GA, 1999), accessible through URL: <a href="https://www.ceds.gatech.edu/bestpractices/cases/colummil.htm">www.ceds.gatech.edu/bestpractices/cases/colummil.htm</a>
- U.S. Department of Energy (DOE), Center of Excellence for Sustainable Development (1999), accessible through URL:
  <a href="http://www.sustainable.doe.gov/buildings/gbintro.htm">http://www.sustainable.doe.gov/buildings/gbintro.htm</a>
- WCED, Our Common Future, 13th ed. (Oxford University Press, Oxford, UK, 1987).

# Appendix A: Study Properties and Demographic Data

Table A1. Selected list of Internet references for DOD property research

Location	Description
http://www.af.mil/sites/	Air Force Site Links
http://www.afbca.hq.af.mil/ols/	Air Force Base Conversion Agency/Information on Air Force BRAC Bases
http://ww2.afreserve.com/locations/base_inf.htm	Air Force Reserve Locations
http://www.army.mil/public/installations.htm	Army Site Links
http://www.ausa.org/armyzine/greenposts.html	Army Magazine Green Book Post & Installations
http://www.osc.army.mil/home/elements.htm	Army Operations Support Command installations
http://www.ncts.navy.mil/nol/	Navy Site Links
http://www.defenselink.mil/pubs/almanac/index.html	Defense Almanac
http://www.defenselink.mil/issues/brac.html	DefenseLink Base Closure Information
http://www.defenselink.mil/pubs/installations/	DefenseLink List of Military Installations (FY96)
http://www.defenselink.mil/specials/outreachpublic/map.html	DefenseLink Military State Facts and Figures
http://www.cr.nps.gov/nagpra/NACD/namap-5.htm	Military Bases in the Continental US (1993)
http://www.cedar.ca.gov/military/current_reuse/currupdt.html	California Military Base Closures Current Status of Reuse Efforts

Table A2. Description of study properties.

ST Bra	Service		1								
	Maileir	Property	(acres)	Cat.	Resident Cnty	ST	Branch	Property	(acres) (	Cat.	Resident Cnty
Am		Maxwell Air Force Base	4104	-	Montgomery	5	MC	Barstow MC Logistics Base	5704	1	San Bernardino
Arr		Anniston Army Depot	15279	2	Calhoun		MC	Camp Pendleton MC Base	186471	-	San Diego
Ē	Army	Fort Rucker	63232		Dale		MC	Miramar MC Air Station	23606	1	San Diego
Army		Redstone Arsenal	37910	-	Madison		MC	Twentynine Palms MC Combat Center	603617	1	San Bernardino
Navy		WFNAS - OLF Barin	650	0	Baldwin		Navy	China Lake Nvi Air Weapons Stn	1102344	ဗ	Kern
Navy		WFNAS - OLF Silverhill	NA	0	Baldwin		Navy	China Lake Nvl Weapons Center	۷N	3	San Bernardino
Navy		WFNAS - OLF Summerdale	NA	0	Baldwin		Navy	Chocolate Mountains Range	NA	٠,	Imperial
AR AF		Little Rock Air Force Base	7210	-	Pulaski		Navy	Concord Military Ocean Terminal	009/	٠	Contra Costa
Arr	Army	Pine Bluff Arsenal	14500	2	Jefferson		Navy	Coronado Naval Amphibious Base	1065	2	San Diego
AH	ARNG	Camp Joseph T Robinson	33000	-1	Pulaski		Navy	El Centro Bombing Range	26000	٠1	Imperial
AR	ARNG	Fort Chaffee	00099	-1	Sebastian		Navy	El Centro Naval Air Facility	3000	2	Imperial
AZ AF	LT.	Davis-Monthan Air Force Base	10633	-	Pima		Navy	Lemoore Naval Air Station	39173	1	Kings/Fresno
AF	ы	Luke AFB - Barry M. Goldwater Range	2664423	0	Yuma		Navy	NI NAS - NALF San Clemente Isl	NA	0	Los Angeles
AF	U	Luke Air Force Base	4199	-	Maricopa		Navy	NI NAS - OLF Imperial Beach	1190	0	San Diego
ΑF	U	Luke Air Force Base - ALF No.1	1105	0	Maricopa		Navy	North Island Naval Air Station (NI NAS)	46575	1	San Diego
Αu	Army	Fort Huachuca	73272	-	Cochise		Navy	Point Mugu Naval Air Weapons Station	4490	1	Ventura
Arı	Army	Ft Huachuca - Dry Lake EPG	30740	0	Cochise		Navy	Point Mugu NAWS - San Nicolas Island	13370	0	Ventura
Αn	Army	Yuma Proving Ground	1009376	2	Yuma		Navy	Port Hueneme Construction Batallion Center	1820	က	Ventura
AF	ARNG	Buckeye Nat'l Guard Target Range	¥	÷	Maricopa		Navy	San Diego Naval Station	1518	-	San Diego
ΑF	ARNG	Camp Florence	25752	÷	Pinal		Navy	San Diego Naval Submarine Base	314	-	San Diego
¥	ARNG	Camp Navaho	28400	-	Coconino		Navy	Seal Beach Naval Weapons Station	16823	က	Orange
ΑF	ARNG	Rittenhouse Training Area	480	÷	Pinal		Navy	Seal Beach NWS - Concord	2200	0	Contra Costa
MC	၁	Yuma MC Air Station	462571	-	Yuma		Navy	Seal Beach NWS - Fallbrook	8851	0	San Diego
S.	Navy	Naval Obervatory - Flagstaff	Ν	÷	Coconino		Navy	Stockton Naval Communications Station	2787	က	San Joaquin
CA AF		Beale Air Force Base	22944	-	Yuba	CO AF	AF	AF Academy - Farish Recreation Area	652	0	El Paso
ΑF	<u></u>	Edwards Air Force Base	300723	-	Kem		ΑF	Air Force Academy	18500	-	El Paso
AF		March Air Reserve Base	6885		Riverside		AF	Buckley Air Nat'l Guard Base	3832	-	Arapahoe
AF		Travis Air Force Base	7580	-	Solana		AF	Cheyenne Mountain Air Station (NORAD)	519	~	El Paso
ΑF	ய	Vandenburg Air Force Base	98256	-	Santa Barbara		AF	Peterson Air Force Base	1277		El Paso
Ą	Army	DDD San Joaquin - Lathrop	724	2	San Joaquin		Army	Fort Carson	137400	-	El Paso
Ā	Army	Fort Irwin	636214	-	San Bernardino		Army	Fort Carson - Pinon Canyon	235600	0	Las Animas
Ar	Army	Presidio of Monterey	1134	7	Monterey		Army	Pueblo Ordnance Depot	23121	~	Pueblo
Ā	Army	Sierra Army Depot	36000	7	Lassen	C	Navy	New London Naval Submarine Base	1812	-	New London
Ā	ARNG	Camp Roberts	42784	7	San Luis Obispo	엄	DC AF	Bolling Air Force Base	604	-	Washington
¥	ARRes	Camp Parks	2705	က	Alameda		Navy	Anacostia Naval Station (NDW)	292	က	Washington
	ARRes	Fort Hunter-Liggett	165500	7	Monterey		Navy	Naval Research Lab, Washington	946	က	Washington
DE AF	ш	Dover Air Force Base	3908	-	Kent	₽	AF	Mountain Home Air Force Base	6000	-	Elmore

ľ	_		Area	ě	:		Service		Area		
ة أ		_	(acres)	3	Resident Cnty	ST	Branch	Property	(acres)	ğ	Resident Cnty
2	2		100929	6	Pok		AF	Saylor Creek Training Range	109000	÷	Owyhee
	ĄF	Cape Canaveral Air Force Station	15435	2	Brevard		Army	Pershing II Missile Launch Site	≨	-	Owyhee
	ΑF	Eglin Air Force Base	463452	-	Okaloosa	IL.	AF	Scott Air Force Base	3230	Ŀ	St. Clair
	ΑF	Homestead Air Reserve Base	298	7	Dade		Атту	Charles Melvin Price Support Center	989	က	Madison
- 1	AF	MacDill Air Force Base	5631	1	Hillsborough		Army	Rock Island Arsenal	946	-	Rock Island
	AF	Patrick Air Force Base	2341	1	Brevard		Navy	Great Lakes Naval Training Center	103	8	Lake
	AF	Tyndall Air Force Base	29102	1	Bay	Z	AF	Grissom Air Reserve Base	3181	-	Mami
	Navy	Corry Station Naval Training Center	737	2	Escambia		Army	Indiana Army Ammuniton Plant	11347	က	Clark
	Navy	Jacksonville Naval Air Station	3923	-	Duval		Army	Newport Army Ammunition Plant	7098	က	Vermillion
	Navy	Key West Naval Air Station	5293	2	Monroe		ARNG	Camp Atterbury	35000	-	Bartholomew
	Navy	Kings OLF	NA.	+	Escambia		Navy	Crane Naval Surface Warfare Center	62938	2	Martin
ŀ	Navy	Mayport Naval Station	2552	1	Duval	Ş	AF	McConnell Air Force Base	3113	-	Sedgwick
- 1	Navy	Panama City Naval Coastal System Station	1116	3	Bay		ΑF	Smoky Hill ANG Range	34000	-	Saline
ı	Navy	Pensacola Naval Air Station	7336	-	Escambia		Army	Fort Leavenworth	2600	-	Leavenworth
1	Navy	Pinecastle Target Range	5825	-1	Marion			Fort Riley	100671	-	Geary/Riley
	Navy	Rodman Bombing Range	ΑN	ŀ	Putnam			Kansas Army Ammunition Plant	13835	က	Labette
	Navy	Stevens Lake Bombing Range	NA	7	Clay		Army	Sunflower Army Ammunition Plant	9542	က	Johnson
	Navy	WFNAS - OLF Choctaw	NA	0	Santa Rosa	KA	Атту	Blue Grass Army Depot	14596	2	Madison
	Navy	WFNAS - OLF Harold	W	0	Santa Rosa	1	Army	Fort Campbell	105070	-	Christian
ſ	Navy	WFNAS - OLF Holley	8	0	Santa Rosa			Fort Knox	109210	-	Hardin
ſ	Navy	WFNAS - OLF Santa Rosa	¥	0	Santa Rosa	Ŋ	AF	Barksdale Air Force Base	22361	-	Bossier
	Navy	WFNAS - OLF Saufley	867	0	Escambia	1	Army	Fort Polk	198894	-	Vernon
Т	Navy	WFNAS - OLF Spencer	≨	0	Santa Rosa		Army	Louislana Army Ammunition Plant	14974	က	Webster
Т	~	Whiting Field Naval Air Station (WFNAS)	10761	-	Santa Rosa		Navy	New Orleans Naval Air Station	4919	~	Plaquemines
8		Dobbins Air Force Base	1913	-	Cobb	MA AF		Hanscom Air Force Base	846	-	Middlesex
T		Moody Air Force Base	9020	-	Lowndes	_		Otis ARNG/Camp Edwards/MMR	21000	-	Bamstable
Т		Robins Air Force Base	8722	-	Houston			Westover Air Force Base	1857	-	Hampden
T		Fort Benning	184051	-	Chattahoochee	_		Natick Soldier Center	922	2	Middlesex
T		Fort Gordon	55588	-	Richmond		les	Devens Reserve Forces Training Area	2000	2	Worcester
П		Fort McPherson	487	7	Fulton	MD/	ΑF	Andrews Air Force Base	0557	-	Prince Georges
T		Fort McPherson - Fort Gillem	1424	2	Clayton	1	Army	Aberdeen Proving Ground	72500	-	Harford
7	_	Fort Stewart	279271	-	Liberty	/	Army	Fort Detrick	1200	~	Frederick
		Beaufort MCAS - Townsend Range	5183	0	McIntosh	_	Army	Fort Meade	5415	-	Anne Arundel
Т		MC Logistics Base Albany	3841	~	Dougherty		Navy	LCNAB - OLF Bloodsworth Island	6013	0	Dorchester
Т		Kings Bay Naval Submarine Support	16667	-	Camden		Navy	Naval Academy	2001	2	Anne Arundel
<b>∀</b>	T	lowa Army Ammunition Plant	19124	~	Des Moines	٦	Navy	Naval Surface Warfare Cntr, Indian Head	3410	3	Charles
Т	ဋ	Camp Dodge	4400	-	Polk	_		Patuxent River NAS - Webster Field	1000	0	St Marys
	AF.	Boise Air Terminal	1994	2	Ada	_	Navy	Patuxent River Naval Air Station	6950	2	St Marys

Property         Area         Cat.         Resident Cnry         ST Banker         Property         Area         1 <th>L</th> <th>0.00</th> <th></th> <th></th> <th>Γ</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Γ</th> <th></th>	L	0.00			Γ						Γ	
AFF         Dimental Many         New Postborouts MRC         Stoknowins MRC         NA         1           Navy         Neurolate Montals Missale ald Station         580 1         Ontrolated Many         Companies Meals ald Station         670 0         0           ARM         Deficies Anne All Missale and Base         3307 0         1 Canadra         MA         Missale Massale Massale Range         670 0         0           AFF         Missale All	ST			(acres)	Cat.	Resident Cnty	ST	Service	Property		Cat.	Resident Cnty
New york         Standard Month of Standard (Standard Month of Standard Standar		AF	Mountain Home AFB - Small Arms Range	3000	0	Elmore		Navy	Solomon's NRC	¥		Calvert
New york benighed belighing         566         1 Mestington         Amy with Stands that belighed Range         205207         1 A F           ARNG         Campford by National Stand Base         3070         1 Meaning by Mitte Stand Aums Floring Base         1 Meaning Mitted         MF         Nellis & AB - And Aums Floring Base         800         0           ARNG         Campford All Aums Floring Base         1 Johnson         AF         Nellis & AB - Stand Aums Floring Base         1 Meaning Mitted         800         1 Meaning Mitted           Army         Apperatured Wood         Medical Mean Mitted         400         Mitted	ME		Brunswick Naval Air Station	15910	1	Cumberland	MN	Army	Fort Bliss - McGregor Range	678100		Otero
AFF         Selficio gale Are National Clained Bases         3070         1 Macomb         MM         AFF         Nellia AFB-S. ALE Indian Springes         NA         0           AFF         Michael Clay Land Work         4827         1 Christon         AFF         Nellia AFB-S. ALE ARE Dates         6400         0         0           AFF         Michael Are Toole Bases         4827         1 Lakssin         AF         Nellia AF Toole Base         3100000         1           Army         Fort Low Low Work         4827         1 Lakssin         AF         Nellia AF Toole Base         17200         0         0           New Y         Apha New Journal Incident         NA         1 Nouchee         Navy         Fallow NAS. Baro 16 Training Range         17300         0           New Y         Alchinson         NA         1 Nouchee         Navy         Fallow NAS. Baro 16 Training Range         17400         0           New Y         Archinson         Navy         Fallow NAS. Baro 16 Training Range         17400         0         0           New Y         Archinson         Navy         Fallow NAS. Baro 16 Training Range         17400         0           New Y         Archinson         Navy         Fallow NAS. ALE Packer         1750         1 Lewis & C		Navy	Naval Radio Station	296	-1	Washington		Army		2285327	-	Dona Ana
Army         Canadrod         AF         Nelles AFE - Small Arms Range         4800         0           AF         Withenan Mr Force Base         64735         1 Johnson         AF         Nelles AFE - Small Arms Range         147000         1           Army         Force Many         Force Many         AFE         Nels AF Force Base         150000         1           Army         Lack Loomad Wood         64735         1 Johnson         AFE         Nels AF Force Base         150000         1           Mary         Are Many         Are Manual Armanian Plant         3550         2 Jackson         Army         Fach Manual Armanian Plant         147000         1           Nevy         Are Manual Read AF Salton         Army         Are Manual Armanian Plant         1471         1 Ambrete         New         7 Fabro NAS - Bano VI Taking Plant         1773         1           Nevy         Are Manual Construction Based         3573         2 Cascade         Navy         Fabro NAS - Bano VI Taking Plant         1773         1 Lackenidae         Navy         Fabro NAS - Bano VI Taking Plant         1773         1 Lackenidae         Navy         Fabro NAS - Bano VI Taking Plant         1773         1 Lackenidae         Navy         Fabro NAS - Bano VI Taking Plant         1773         1 Lackenidae	Ξ	AF	Selfridge Air National Guard Base	3070	1	Macomb	N	AF	Nellis AFB - ALF Indian Springs	Ν		Clark
AF         Withleament AF Froop Base         64627         1 Johnson         AF         Nella Mr Froop Base         6400         1 Group Amy           Amy         1 Foundarie AF Froop Base         64725         1 Pudsson         Amy         Hearly Refore Base         1510000         1           Newy         Apha Reveal Aurillan Brain         3850         2 Judeson         Amy         Fraid Lean MAS. Bran of 15 Training Range         17200         0           Newy         Apha Reveal Aurillan Shallan         8000         2 Judeson         Na         1 Nourbee         Navy         Fallon MAS. Bran of 15 Training Range         17200         0           Newy         Newy         New John Shallan         Amy         1 Nourbee         Navy         Fallon NAS. Bran of 15 Training Range         17200         0           New Y         New John Shallan         Amy         1 Nourbee         Navy         Fallon NAS. Bran of 15 Training Range         17200         0           New Y         New John Shallan Mark All Shallon         Amy         Navy         Fallon NAS. Bran of 15 Training Range         17200         0           AF         New John Shallan         Amy         Amy         Navy         Fallon NAS. Bran of 15 Training Range         17200         0           AF         <	'	ARNG	Camp Grayling	147000	-1	Crawford		AF	Nellis AFB - Small Arms Range	4800		Clark
Army         Front Leonard Nocod         67755         1 Pulasish         AF         NewInder Army Depote         1100000         3           Navy         Alten Coll Anny Alman Uniton Plant         39590         2 Jacksoon         I Anno Alman Anny Depote         177000         3           Navy         Alten Coll Anny Alman Naval Anny Ender Anny Depote         Alten Naval Anny Alman Naval Anny Ender Naval Anny Alman Naval Anny Ender Naval Anny Alman Naval Anny Alman Naval Anny Alman Naval Anny Ender Naval Anny Alman Naval Anny Ender Naval Anny Alman Naval Anny Alman Naval Anny Ender Naval Anny Alman Naval Anny Alman Naval Anny Ender Naval Anny Alman Naval	Q	AF	Whiteman Air Force Base	4627	1	Johnson		AF	Nellis Air Force Base	6400	1	Clark
Army         Labe City Antw Annumation Plant         3896         2 Jackson         Jackson         Army         Helbon Mode Service Plant         Helbon Mode Service Plant         Helbon Mode Service Plant         Helbon Mode Service Plant         147000         3           Newy         Alerha Nareal Jurgay & Station         NA         1         Nounbert         Newy         Fellon NMS- Bravo 17 Training Brange         17200         0           Newy         Mendian Nerol Air Station         8000         2         Laudendae         Newy         Fellon NMS- Bravo 18 Training Brange         17720         0           AFR         Mendian Nerol Air Station         8771         3         Caesade         NY         Helbon NMS- Bravo 18 Training Brange         17720         1           AFR         Genty William H H Hariston         8573         2         Caesade         NY         Helbon NMS- Bravo 18 Training Brange         17700         1           AFR         Genty William H H Hariston         8573         1         Lewis & Clark         Amy         Fellon NMS- Bravo 20 Training Brange         17700         1           AFR         Genty William Pool         1         Domester         NW         Amy         Fellon NMS- Bravo 20 Training Brange         17700         1           AFR         <		Army	Fort Leonard Wood	64735	1	Pulaski		AF		3100000		Nye
Navy         Alphacu Naviganian Valorian May         1 Navidae         Navy         Fallon NAS: Bran or 1 Engining Range         177290         0           Navy         Markay Mericalan NASJoe Williams Fleid         NAA         1 Navidae         Navy         Fallon NAS: Bran or 1 Training Range         12400         0           Navy         Markadan NAS-I Air Salion         800         2 Lackadea         NAY         Fallon NAS: Bran or 1 Training Range         17730         0           Navy         Markad Construction Bazilation Christ         477         3 Harrison         1 Navid Christon         1 Navid C		Army	Lake City Army Ammunition Plant	3950	2	Jackson		Army	Hawthome Army Depot	147000		Mineral
New y         Medical no MSS—Bow Williams Field         NA         0         Kemper         New y         Fellon NAS: Bravo 17 Training Range         21400         0           Raby         Mexical m NAS—Labe Williams Field         800         2         Landbedde         Navy         Field no NAS: Bravo 17 Training Range         17707         0           New y         Multisuppose Targer Range         100         1         Levies C Carge         NA         1         Navies Construction Batalism Cut         4771         3         Hemiston         NA         Final Indian Navies C Carge         100         0         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100	MS		Alpha Naval Auxiliary Air Station	NA	-1	Noxubee		Navy	Fallon NAS - Bravo 16 Training Range	17280	0	Churchill
Navy         Meridian Neval Air Station         8000         2         Lauderdate         Navy         Failon NAS. Bravo 19 Training Range         17330         0           Nahy         Multipose I grapel Range         NA         -1 Novubbe         NA         -1 Novubbe         14007         0         0           AF         Mahar Corestruction Batalilor Cutr         477         3         Harm         NA         -1 Novubbe         14007         0         0           AFP         Mahar Corestruction Batalilor Cutr         477         2         Cabezade         NV         AF         Hanock Fled         777         2         1         2         4         3         1		Navy	Meridian NAS – Joe Williams Field	NA	0	Kemper		Navy	Fallon NAS - Bravo 17 Training Range	21400	0	Churchill
Nay         Malipurpose Target Range         NA         -1         Novobee         Nay         Fallon Naval Arra (Total Range)         41007         787         2           Nay         Naral Construction Batalion Chir         477         3         Harrison         NV AF         Hannoton Markal Mr Station         373         2         Coseade         NV AF         Hannoton Mr Range         107265         1         2         4         Amy         For Loum         107265         1         2         4         4         4         Amy         For Loum         107265         1         2         4		Navy	Meridian Naval Air Station	8000	2	Lauderdale		Navy	Fallon NAS - Bravo 19 Training Range	17330	i	Churchill
Nay         Navel Constituction Batallion Cnift         4771         3 Hariston         Halvs         Falten Name         7372         2           AFF         Fort William H Harisson         8500         1 Lewis & Clark         Amy         Falten Demostry Read         107268         1           AFF         Cheny Point Lare County Range         17750         1 Cumberland         Amy         Michael Sacreta Army Depot Activity         10620         1         2           AFF         Pope Air Force Base         17750         1 Cumberland         Amy         Michael Proce Base         81450         1           Army         Fort Base         17740         1 Cumberland         Amy         Resease Training Center         81420         3           Army         Fort Base         12743         1 Cumberland         Amy         Resease Training Center         81420         3           MC         Chenry Point MCAS         10 Chenry Point MCAS         1 Chenry Point MCAS		Navy	Multipurpose Target Range	NA	-	Noxubee		Navy	Fallon NAS - Bravo 20 Training Range	41007	0	Churchill
AFF         Malmistrom Air Force Base         3573         2         Cascade         NV         AF         Hamock Field         Fort Dumm         1072865         1           AFRVO         Cherty Point Date County Range         1700         -1         Lewis & Clark         Army         Fort Dumm         167000         1           AF         Cherty Point Date County Range         1750         -1         Lewis & Clark         Army         Military Acade Point         16700         -1           AFF         Seymour Johnson Air Force Base         1750         -1         Cumberland         Army         Military Acade Point         16700         -1           Army         Fort Basg - Camp MacAll Training Area         16281         1         Cumberland         Army         Rareama Army Ammunition Plant         1670         -1           Army         Fort Basg - Camp MacAll Training Area         15081         1         Cumberland         Army         Rareama Army Ammunition Plant         14         -1           Army         Fort Basg - Camp MacAll Training Area         15081         1         Cumberland         Army         Rareama Army Ammunition Plant         14         1           Mrc         Cherry Point MacAll Sale MacAll MacA. Sale MacAll MacAll Sale MacAll MacA. Sale MacAll MacAll MacA. Sale Ma		Navy	Naval Construction Batallion Cntr	4771	3	Harrison		Navy	Fallon Naval Air Station	7872	2	Churchill
AFPING         Front William H Harrison         8500         -1         Lewis & Clark         Army         Millian A Meatenmy at West Point         1 (17266)         1           AFF         Cheny Point Dane County Range         10000         -1         Dane         Army         Milliany Academy at West Point         1 (16000         1           AFF         Poppe Air Force Base         1700         1         Chancherland         NA	ΔŢ		Malmstrom Air Force Base	3573	2	Cascade	٨N	AF	Hancock Field	371	2	Onondaga
AFF         Cheeny Point Daze County Range         10000         -1         Daren         Army         Milliany Academy at West Point         16000         1           AFF         Pope Air Force Bases         1750         1         Cumberland         Army         Seneca Army Depot Activity         10634         3           AMY         Solymour Johnson Air Force Bases         16897         1         Cumberland         OH Arm         Michaning Center         8142         1           Army         Fort Bagg         Fort Bagg         16897         1         Cumberland         OH Army         Revenue Army Ammunition Plant         21420         3           Army         Milliary Ocean Terminal Sunny Point McAir Stallon         16000         3         Brunswick         Nay         Defense Supply Center Columbus         561         2           MC         Cherry Point McAs Stallon         16000         3         Brunswick         NAF         Army         Makes Mr Force Base         5600         1           MC         Cherry Point McAs - ALF Begue         1760         3         Granter         Army         McAlessler Army Ammunition Plant         44364         2           MC         Cherry Point McAs - ALF Begue         1760         3         Granter         Army <td></td> <td>ARNG</td> <td>Fort William H Harrison</td> <td>8200</td> <td>+</td> <td>Lewis &amp; Clark</td> <td></td> <td>Army</td> <td>Fort Drum</td> <td>107265</td> <td>-</td> <td>Jefferson</td>		ARNG	Fort William H Harrison	8200	+	Lewis & Clark		Army	Fort Drum	107265	-	Jefferson
AF         Pope Air Force Base         1750         1         Cumberland         Army         Seneca Army Depot Activity         10624         3           Amy         Seymour Johnson Air Force Base         3223         1         Mayne         MC Resene Training Center         NA         1           Army         Fort Basg         Camp Labelum Mc Sase         16817         1         Cumberland         OH AF         Wingth-Palterson Air Force Base         8145         1           Army         Millar Debut Mc Sase         127439         1         Onston         OR AF         Allus Air Force Base         8881         1           MC         Cherry Point MC Air Station         13164         1         Cranet         Army         Allus Air Force Base         8881         1           MC         Cherry Point MCAS - AIF Bogue         875         0         Carteret         Army         Army         McAester Amy Ammunition Plant         44556         1           MC         Cherry Point MCAS - AIF Bogue         875         0         Carteret         Army         McAester Amy Ammunition Plant         44564         2           MC         Cherry Point MCAS - AIF Bogue         875         1         Granter Force Base         5422         0         Contenter	S		Cherry Point Dare County Range	10000	-1	Dare		Army	Military Academy at West Point	16000	-	Orange
AF         Seymour Johnson Air Force Base         3233         1         Wayne         MC         MC Reserve Training Center         NA         1           Ammy         Fort Bragg         Fort Bragg         160017         1         Cumberland         OH         Ammy         Michit-Patitisson Air Force Base         8145         1           Army         Milata Army         Port Bragg         Campul Lebrand         18000         3         Blumwid         Ammy         Delears Supply Center Columbus         2514         2         1           MC         Campul Lebrane MC Base         127439         1         Oraven         Ammy         Ammy Air Force Base         6900         1         Ammy         Ammy Air Force Base         6900         1           MC         Cherry Point MCAS - ALF Bogue         875         0         Carteret         Ammy         McAlester Ammy Ammunition Plant         44566         1           MC         Cherry Point MCAS - ALF Bogue         875         0         Carteret         Ammy         McAlester Ammy Ammunition Plant         44566         1           MC         Cherry Point MCAS - ALF Point Barge (BT-87)         3000         0         Carteret         Ammy         McAlester Ammy Ammunition Plant         44566         1 <t< td=""><td></td><td>ΑF</td><td>Pope Air Force Base</td><td>1750</td><td>-</td><td>Cumberland</td><td></td><td>Army</td><td>Seneca Army Depot Activity</td><td>10634</td><td>3</td><td>Seneca</td></t<>		ΑF	Pope Air Force Base	1750	-	Cumberland		Army	Seneca Army Depot Activity	10634	3	Seneca
Army         Fort Bragg         Fort Bragg         1 Cumberland         OH AF         Wright-Patterson Air Force Base         8145         1           Army         Fort Bragg         Camp Mackall Training Area         6542         0 Richmond         Army         Bravenna Army Ammunition Plant         21420         3           Army         Millary Ocean Terminal Sunny Point         1500         3 Brunswick         Nav         Deterse Supply Center Columbus         551         2           MC         Cherry Point MCAS - Station         13144         1 Craven         OK         AF         Altus Air Force Base         5500         1           Cherry Point MCAS - CLE Rogue         870         0 Jones         AF         Trainer Air Force Base         5622         1 Graven         AF         Trainer Air Force Base         5622         1 Grand Forks         Army         McAlester Army Ammunition Plant         44564         2           AF         Grand Forks Air Force Base         5622         1 Grand Forks         ARM         McAlester Army Ammunition Plant         44564         2           AF         Grand Forks Air Force Base         5622         1 Grand Forks         Army         McAlester Army Ammunition Plant         44564         2           AF         Mill Guir Air Force Base <t< td=""><td></td><td>AF</td><td>Seymour Johnson Air Force Base</td><td>3233</td><td>-</td><td>Wayne</td><td></td><td>MC</td><td>MC Reserve Training Center</td><td>NA</td><td>+</td><td>Onondaga</td></t<>		AF	Seymour Johnson Air Force Base	3233	-	Wayne		MC	MC Reserve Training Center	NA	+	Onondaga
Army         Fort Bragg - Camp Mackall Training Area         6542         0         Richmond         Army         Ravenna Ammy Ammunition Plant         21420         3           Ammy         Military Ocean Terminal Sunny Point MC Base         16000         3         Brunswick         Nay         Defense Supply Center Columbus         551         2           MC         Cherry Point MC Base         13164         1         Charles         1         Vance Air Force Base         6901         1           MC         Cherry Point MCAS - LF Bogue         875         0         Jones         Army         Army Force Base         4555         1           MC         Cherry Point MCAS - CLF Cak Grove         800         0         Jones         Army         McAelsster Army Ammunition Plant         4555         1           MC         Cherry Point McAs - CLF Cak Grove         800         0         Jones         Army         McAelsster Army Ammunition Plant         4555         1           AF         Grand Forks Air Force Base         5422         1         Grand Forks         Army         McAelsster Army Ammunition Plant         4354         2           AF         Minot Air Force Base         5085         1         Mard         Army         Marmy         Marmy		Army	Fort Bragg	160817	-	Cumberland	동	AF	Wright-Patterson Air Force Base	8145	1	Greene
Army         Military Ocean Terminal Sunny Point         16000         3 Brunswick         Navy         Delense Supply Center Columbus         551         2           MC         Camp LeJeune MC Base         127439         1 Onslow         OK         AF         Altus Air Force Base         6981         1           MC         Cherry Point MC Air Station         13164         1 Craven         AF         Tinker Air Force Base         5000         1           MC         Cherry Point MCAS - AIF Bogue         875         0 Carteret         Amy         For Sill         94220         1           MC         Cherry Point MCAS - OIF Oak Grove         900         0 Jones         Amy         Madester Army Ammunition Plant         4555         1           MC         Cherry Point MCAS - OIF Oak Grove         900         0 Jones         Amy         Madester Army Ammunition Plant         4456         2           MC         Cherry Point MCAS - OIF Oak Grove         900         0 Graferet         Amy         Madester Army Ammunition Plant         4459         2           AF         Grand Force Base         545         1 Grand Force         Amy         Madester Army Ammunition Plant         47590         1           AFNG         Modul Mary Area         Amy         Mary		Army	Fort Bragg - Camp Mackall Training Area	6542	0	Richmond		Army	Ravenna Army Ammunition Plant	21420	3	Portage
MC         Camp LeJeune MC Base         127439         1         Onslow         OK         AF         Altus Air Force Base         6981         1           MC         Cherry Point MC Air Station         13164         1         Craven         AF         Tinker Air Force Base         5000         1           MC         Cherry Point MCAS - ALF Bogue         875         0         Carteret         Amy         Fort Sill         44964         2           MC         Cherry Point MCAS - OLF Oak Grove         900         0         Jones         Amy         Fort Sill         44964         2           MC         Cherry Point MCAS - OLF Oak Grove         900         0         Jones         Amy         McAlester Army Ammunition Plant         44964         2           AF         Grand Foks Air Force Base         5026         1         Grand Foks         Amy         McAlester Army Ammunition Plant         47964         2           AF         Grand Foks Air Force Base         5085         1         Mard         Amy         McAlester Army Ammunition Plant         47000         0           AF         Grand Foks Air Force Base         5085         1         Mard         Amy         McAlester Army Ammunition         47000         1		Army	Military Ocean Terminal Sunny Point	16000	3	Brunswick		Navy	Defense Supply Center Columbus	551	2	Franklin
MC         Cherry Point MC Air Station         13164         1         Craven         AF         Tinker Air Force Base         5000         1           MC         Cherry Point MCAS - ALF Bogue         875         0         Carteret         Army         Fort Sill         Vance Air Force Base         4555         1           MC         Cherry Point MCAS - OLF Oak Grove         900         0         Jones         Army         Fort Sill         44964         2         1           MC         Cherry Point MCAS - OLF Oak Grove         900         0         Carteret         Army         McAlester Army Ammunition Plant         44964         2         1           AF         Grand Forks Air Force Base         5422         1         Grand Forks         Army         McAlester Army Ammunition Plant         4072         2         2           AF         Minot Air Force Base         5085         1         Ward         Army         Unatilla Chemical Depot         1072         2         2           AF         Minot Air Force Base         5085         1         Ward         Army         Whidbel Stand Army Ammunition Plant         4700         0           AF         Minot Air Force Base         1000         1         Saunders         1		MC	Camp LeJeune MC Base	127439	-	Onslow	ð	AF	Altus Air Force Base	6981	-	Jackson
MC         Cherry Point MCAS - ALF Bogue         875         0         Carteret         AF         Vance Air Force Base         4555         1           MC         Cherry Point MCAS - OLF Oak Grove         900         0         Lones         Army         Fort Sill         94220         1           MC         Cherry Point MCAS - OLF Oak Grove         900         0         Carteret         Army         MocAlester Army Ammunition Plant         44964         2           AF         Grand Forks Air Force Base         5085         1         Grand Forks         ARM         Unatilla Chemical Depot         1072         2           AF         Minot Air Force Base         4044         1         Sarpy         ARM         Unatilla Chemical Depot         1072         2           AFNG         Mead Army Nat'l Guard Facility         1000         -1         Saunders         NAM         Whidbey Island MAS - Boardman Range         47000         0           AFNG         Mead Army Nat'l Guard Facility         1000         -1         Saunders         NAM         Whidbey Island MAS - Boardman Range         47000         0           Army         Fort Dix         Army         Leterkenny Army Depot         Army         Leterkenny Army Depot         17924         3		MC	Cherry Point MC Air Station	13164	-	Craven		AF	Tinker Air Force Base	2000	-	Oklahoma
MC         Cherry Point MCAS - OLF Oak Grove         900         0         Jones         Army         Fort Sill         Port Sill         44964         2           MC         Cherry Point Range (BT-9?)         3000         0         Carteret         Army         McAlester Army Ammunition Plant         44964         2           AF         Grand Forks Air Force Base         5422         1         Grand Forks         0R AF         Kingsley Fleld Air Guard Station         1072         2           AF         Minot Air Force Base         5085         1         Ward         Army         Umatilla Chemical Depot         1072         2           AF         Minot Air Force Base         4044         1         Sampy         ARNG         Camp Filea         2000         -1           AF         McGuire Air Force Base         3597         1         Burlington         PA         Army         DDD Susquehanna         848         2           Army         Fort Dix         Accidire Air Force Base         3597         1         Burlington         PA         Army         Letterkenny Army Depot         17924         3           Army         Fort Monmouth         1101         1         Monmouth         Army         Army         Army		MC	Cherry Point MCAS - ALF Bogue	875	0	Carteret	Ш	AF	Vance Air Force Base	4555	-	Garfield
MC         Chenry Point Range (BT-9?)         3000         0         Carateret         Army         McAelester Army Ammunition Plant         44964         2           AF         Grand Forks Air Force Base         5422         1         Grand Forks         1672         172         2           AF         Minot Air Force Base         5085         1         Ward         Army         Umatilia Chemical Depot         19729         3           AF         Minot Air Force Base         5085         1         Ward         ARMS         Camp Fliea         2000         1           AF         Offult Air Force Base         4044         1         Sarnders         ARMS         Camp Fliea         4700         1           AF         McGuire Air Force Base         3597         1         Burlington         Army         Unatiliac Name Name Name Name Name Name Name Name		MC	Cherry Point MCAS - OLF Oak Grove	900	0	Jones		Army	Fort Sill	94220	-	Comanche
AF         Grand Forks Air Force Base         5422         1         Grand Forks         OR AF         Kingsley Field Air Guard Station         1072         2           AF         Minot Air Force Base         5085         1         Ward         Amy         Unatilla Chemical Depot         19729         3           AF         Minot Air Force Base         4044         1         Sarpy         ARNG         Camp Rilea         2000         -1           ARNG         Mead Army Nat! Guard Facility         1000         -1         Sarnders         Navy         Whidbey Island NAS - Boardman Range         47000         0           AF         Mc Guire Air Force Base         3597         1         Burlington         Army         Letterkenny Amy Depot         47000         1           Army         Fort Monmouth         1101         1         Monmouth         Army         Site R – Raven Rock (AJCC)         718         -1           Army         Picatinny Arsenal         6493         2         Morris         ARRS         Fort Indiantown Gap         17902         2           Navy         Earle Naval Weapons Station - Waterfront         1000         1         Monmouth         Navy         Navy         Willow Grove Naval Air Station         1100         2 <td></td> <td>MC</td> <td>Cherry Point Range (BT-9?)</td> <td>3000</td> <td>0</td> <td>Carteret</td> <td></td> <td>Army</td> <td>McAlester Army Ammunition Plant</td> <td>44964</td> <td>2</td> <td>Pittsburg</td>		MC	Cherry Point Range (BT-9?)	3000	0	Carteret		Army	McAlester Army Ammunition Plant	44964	2	Pittsburg
AF         Minot Air Force Base         5085         1         Ward         Army         Umatilia Chemical Depot         19729         3           AF         Offutt Air Force Base         4044         1         Sarpy         ARNG         Camp Flilea         2000         -1           AFNG         Mead Army Nat'l Guard Facility         1000         -1         Saunders         Navy         Whidbey Island NAS- Boardman Range         47000         0           AF         Mc Guire Air Force Base         3597         1         Burlington         Army         Letterkenny Army Depot         47000         0           Army         Fort Dix         Army         Letterkenny Army Depot         19243         2           Army         Fort Dix         Army         Sile R – Raven Rock (AJCC)         718         -1           Army         Fort Indiantown Gap         Army         Monmouth         Army         Marmy         Indiantown Gap         718         -1           Army         Earle Naval Weapons Station - Waterfront         10000         1         Monmouth         Navy         Willow Grove Naval Air Station         824         3           Navy         Lakehurst Naval Air Systems Command         7431         2         Ocean         1	윤		Grand Forks Air Force Base	5422	-	Grand Forks	Б	AF	Kingsley Field Air Guard Station	1072	2	Klamath
AFN Golutt Air Force Base         4044         1         Sarpy         ARNG         Camp Rilea         Camp Rilea         2000         -1           ARNG         Mead Army Nat'l Guard Facility         1000         -1         Saunders         Navy         Whidbey Island NAS- Boardman Range         47000         0           AFF         Mc Guire Air Force Base         3597         1         Burlington         Army         Letterkenny Army Depot         19243         2           Army         Fort Dix         Army         Letterkenny Army Depot         19243         2         1           Army         Fort Dix         Army         Sile R – Raven Rock (AJCC)         718         -1           Army         Fort Indiantown Gap         Army         ARRes         Fort Indiantown Gap         17902         2           Navy         Earle Naval Weapons Station - Waterfront         1100         1         Monmouth         Navy         Willow Grove Naval Air Station         824         3           Navy         Lakehurst Naval Weapons Station - Waterfront         1100         1         Monmouth         Navy         Willow Grove Naval Air Station         1100         2           Navy         Lakehurst Naval Air Systems Command         120         2         Ocean		AF	Minot Air Force Base	5085	-	Ward		Army	Umatilla Chemical Depot	19729	က	Umatilla
ARNG         Mead Army Nat'l Guard Facility         1000         -1         Saunders         Navy         Whidbey Island NAS- Boardman Range         47000         0           AFF         Mc Guire Air Force Base         3597         1         Burlington         Army         DDD Susquehanna         848         2           Army         Fort Dix         30997         1         Burlington         Army         Letterkenny Army Depot         19243         2           Army         Fort Monmouth         1101         1         Monmouth         Army         Site R.— Raven Rock (AJCC)         718         -1           Army         Fort Monmouth         1000         1         Monmouth         Navy         Naval Inv. Control Pt, Mechanicsburg         824         3           Navy         Earle Naval Weapons Station - Waterfront         1100         1         Monmouth         Navy         Willow Grove Naval Air Station         1100         2           Navy         Lakehurst Naval Air Systems Command         7431         2         Ocean         RI         Navy         Navyor Naval Educational & Training Center         1214         2           AF         Cannon Air Force Base         2         AF         Charron         Charron         Charron         Charron	빌		Offutt Air Force Base	4044	-	Sагру		ARNG	Camp Rilea	2000	7	Clatsop
AF         Mc Guire Air Force Base         3597         1         Burlington         PA Army         DDD Susquehanna         848         2           Army         Fort Dix         30997         1         Burlington         Army         Letterkenny Army Depot         19243         2           Army         Fort Monmouth         1101         1         Monmouth         Army         Site R – Raven Rock (AJCC)         718         -1           Army         Picatinny Arsenal         6483         2         Morris         ARRes         Fort Indiantown Gap         17902         2           Navy         Earle Naval Weapons Station - Waterfront         1100         1         Monmouth         Navy         Willow Grove Naval Air Station         1100         2           Navy         Lakehurst Naval Air Systems Command         7431         2         Ocean         RI         Navy         Navyor Naval Educational & Training Center         1214         2           AF         Cannon Air Force Base         4536         1         Oury         SC AF         Charleston Air Force Base         3733         1		ARNG	Mead Army Nat'l Guard Facility	1000	÷	Saunders		Navy	Whidbey Island NAS - Boardman Range	47000	0	Morrow
Army         Fort Dix         30997         1         Burlington         Army         Letterkenny Army Depot         19243         2           Army         Fort Monmouth         1101         1         Monmouth         Army         Sie R – Raven Rock (AJCC)         718         -1           Army         Picatinny Arsenal         6493         2         Morris         ARRes         Fort Indiantown Gap         17902         2           Navy         Earle Naval Weapons Station - Mainside         1000         1         Monmouth         Navy         Naval Inv. Control Pt. Mechanicsburg         824         3           Navy         Earle Naval Weapons Station - Waterfront         1100         1         Monmouth         Navy         Nillow Grove Naval Air Station         1100         2           Navy         Lakehurst Naval Air Systems Command         7431         2         Ocean         RI         Navy         Newport Naval Educational & Training Center         1214         2           AF         Cannon Air Force Base         4536         1         Ourry         SC AF         Charleston Air Force Base         3733         1	3		Mc Guire Air Force Base	3597	1	Burlington	Ā	Army	DDD Susquehanna	848	2	Cumberland
Army         Fort Monmouth         1101         1         Monmouth         Army         Site R – Raven Rock (AJCC)         718         -1           Army         Picatinny Arsenal         6493         2         Morris         ARRes         Fort Indiantown Gap         17902         2           Navy         Earle Naval Weapons Station - Waterfront         1000         1         Monmouth         Navy         Willow Grove Naval Air Station         1100         2           Navy         Lakehurst Naval Air Systems Command         7431         2         Ocean         RI         Navy         Newport Naval Educational & Training Center         1214         2           AF         Cannon Air Force Base         4536         1         Curry         SC AF         Charleston Air Force Base         3733         1		Army	Fort Dix	30997	-	Burlington		Army	Letterkenny Army Depot	19243	7	Franklin
Army     Picatinny Arsenal     6483     2     Morris     ARRes     Fort Indiantown Gap     17902     2       Navy     Earle Naval Weapons Station - Waterfront     10000     1     Monmouth     Navy     Willow Grove Naval Air Station     1100     2       Navy     Lakehurst Naval Air Systems Command     7431     2     Ocean     RI     Navy     Newport Naval Educational & Training Center     1214     2       AF     Cannon Air Force Base     4536     1     Curry     SC     AF     Charleston Air Force Base     3733     1		Army	Fort Monmouth	1101	-	Monmouth		Army	Site R – Raven Rock (AJCC)	718	÷	Adams
Navy     Earle Naval Weapons Station - Mainside     10000     1     Monmouth     Navy     Wavillow Grove Naval Air Station     824     3       Navy     Earle Naval Weapons Station - Waterfront     1100     1     Monmouth     Navy     Willow Grove Naval Air Station     1100     2       Navy     Lakehurst Naval Air Systems Command     7431     2     Ocean     RI     Navy     Newport Naval Educational & Training Center     1214     2       AF     Cannon Air Force Base     4536     1     Curry     SC     AF     Charleston Air Force Base     3733     1		Army	Picatinny Arsenal	6493	7	Morris		ARRes	Fort Indiantown Gap	17902	7	Dauphin
Navy     Earle Naval Weapons Station - Waterfront     1100     1     Monmouth     Navy     Willow Grove Naval Air Station     1100     1       Navy     Lakehurst Naval Air Systems Command     7431     2     Ocean     RI     Navy     Newport Naval Educational & Training Center     1214     2       AF     Cannon Air Force Base     4536     1     Curry     SC     AF     Charleston Air Force Base     3733     1		Navy		10000	-	Monmouth		Navy	Naval Inv. Control Pt, Mechanicsburg	824	ဇ	Cumberland
Navy     Lakehurst Naval Air Systems Command     7431     2     Ocean     RI     Navy     Newport Naval Educational & Training Center     1214     2       AF     Cannon Air Force Base     4536     1     Curry     SC AF     Charleston Air Force Base     3733     1		Navy		1100	-	Monmouth		Navy	Willow Grove Naval Air Station	1100	2	Montgomery
AF Cannon Air Force Base 4536 1 Curry SC AF Charleston Air Force Base 3733 1			tems	7431	7	Ocean	₽	Navy	Newport Naval Educational & Training Center	1214	~	Newport
	₹	AF	Cannon Air Force Base	4536	-	Curry	႘	AF	Charleston Air Force Base	3733	_	Charleston

-			AFBB			_	Cory		Ame		
ST	Branch	Property	(acres)	Cat	Resident Cnty	ST	Branch	Property	(acres)	S	Resident Cnty
	ΑF	Holloman Air Force Base	59639	-	Otero		AF	Shaw Air Force Base	3363	-	Sumter
	AF	Kirtland Air Force Base	52678	-	Bemaiillo		Amy	Fort Jackson	52301	-	Richland
	ΑF	Melrose Air Force Range	6614	ŀ	Roosevelt		ş	Beaufort MC Air Station	2800	-	Beaufort
ပ္တ	MC	Beaufort MCAS - Laurel Bay Housing	1100	0	Beaufort	\$	VA Army	Fort A. P. Hill	76000	က	Caroline
7	MC	Parris Island MC Recruit Depot	8113	-	Beaufort		Army	Fort Belvoir	9538	-	Fairfax
	Navy	Charleston Naval Weapons Station	17429	3	Berkeley		Агту	Fort Eustis	8228	-	Newport News
	٩F	Ellsworth Air Force Base	10632	-	Pennington		Army	Fort Lee	5574	-	Prince George
Z	Army	Milan Arsenal & Wildlife Mgmt Area	22624	7	Gobson		Army	Fort Monroe	1070	8	Hampton
$\neg$	Navy	Memphis Naval Air Station	3450	7	Shelby			Fort Story	1451	~	Virginia Beach
×	AF	Brooks Air Force Base	1310	1	Bexar			Radford AAP - New River Unit	3450	2	Pulaski
	AF	Dyess Air Force Base	6405	1	Taylor		Army	Radford Army Ammunition Plant	3450	2	Pulaski
7	ĄĘ.	Goodfellow Air Force Base	1136	-	Tom Green		ARNG	Fort Pickett	45160	-	Dinwiddie
	ĄĘ	Lackland Air Force Base	6754	-	Bexar		MC	Quantico MC Base	60483	~	Prince William
٦	ΑF	Laughlin Air Force Base	5131	-	Val Verde		Navy	Armed Forces Training - Camp Peary	9274	-	York
7		Randolph Air Force Base	5044	-	Bexar		Navy	Dam Neck Fleet Combat Training Center	1303	2	Virginia Beach
		Sheppard Air Force Base	6158	-	Wichita		Navy	Little Creek Naval Amphibious Base (LCNAB)	2120	-	Virginia Beach
7		Fort Sam Houston	3280	-	Bexar		Navy	Naval Surface Warfare Center, Dahlgren	4321	2	King George
7		Camp Bullis	12000	3	Bexar		Navy	Norfolk Naval Shipyard	8	2	Portsmouth
7		Fort Bliss	1126514	-	El Paso		Navy	Norfolk Naval Station	3400	-	Norfolk
7		Fort Hood	217345	-	Bell		Navy	Oceana NAS - ALF Fentress	5406	0	Chesapeake
7		Longhorn Ordnance AAP	8483	၈	Harrison		Navy	Oceana Naval Air Station	5916	-	Virginia Beach
	П	Red River Army Depot	19081	~	Bowie		Navy	Yorktown Naval Weapons Station	13248	3	York
4	П	Camp Swift N. G. Facility	11700	÷	Bastrop		Navy	Yorktown NWS - Cheatham Annex	1579	0	York
4		Fort Wolters	¥	÷	Parker	5		Camp Johnson	¥	÷	Chittenden
쉬		Corpus Christi Naval Air Station	4506	7	Nueces		ARNG	Ethan Allen Firing Range	¥	-	Chittenden
ᅱ		Ft Worth NAS/Joint Reserve Base	1805 505	~		WA AF		Fairchild Air Force Base	4551	-	Spokane
	۲	Kingsville Naval Air Station	16334	2	Kleberg		AF IN	McChord Air Force Base	4616	-	Pierce
<u> </u>		Hill AFB - Little Mountain Annex	≨	0	Weber		Army	Fort Lewis	86176	1	Pierce
纤		Hill AFB - Utah Test & Tmg Range (North)	≨	0	Tooele		Army	Yakima Firing Center	323400	က	Yakima
쒸	ĄĘ	Hill AFB - Utah Test & Tmg Range (South)	≨	0	Tooele		Navy	Bangor Naval Submarine Base	6527	1	Kitsap
쒸		Hill Air Force Base	8699	-	Davis	_	Navy	Indian Island Naval Magazine	2700	÷	Jefferson
ᠫ		Deseret Chemical Depot	19000	7	Tooele		Navy	Puget Sound Naval Shipyard	1577	-	Kitsap
纤		Dugway Proving Grounds	798855	7	Tooele	-		Whidbey Island NAS - Ault Fleld	N.	0	Island
۲		Green River Launch Cmpix (WSMR)	≨	-	Grand	_	Navy	Whidbey Island Naval Air Station	9126	1	Island
⋖		Tooele Army Depot	25172	~	Tooele	3	Army	Volk Field CRTC	2336	-	Juneau
	ဋ	Camp Williams	25000	<del>-</del>	Utah	*	ARRes F	Fort McCoy	127730	2	Monroe
¥ ¥		Langley Air Force Base	3152	-	Hampton	WY AF		Francis E Warren Air Force Base	2866	-	Laramie
₹	Army	Craney Island FISC Fuel Depot	¥	0	Portsmouth	-				Γ	

Table A3. State summary of study properties.

tate	State	AF	Army	ARNG	Marines	Navy	Total Properties	Property Area Total	Ļ
AL	Alabama	1	3			3	7	121175	+
AZ	Arizona	4	3	4	1	1	13	4310951	+
AR	Arkansas	1	1	2			4	120710	
CA	California	5	6	1	4	20	36	3452967	1
CO	Colorado	5	3				8	420901	
CT	Connecticut					1	1	1812	
DE	Delaware	1					1	3908	
DC	District of Columbia	1				2	3	1842	Г
FL	Florida	7				17	24	656807	1
GA	Georgia	3	5		2	1	11	563197	П
ID	Idaho	4	1				5	119994	4
-IL	Illinois	1	2	T		1	4	5892	Г
IN	Indiana	1	2	1		1	5	119564	
IA	lowa	<u>'</u>	1	+			2	23524	_
KS	Kansas	2	4	+			6	166761	
KY	Kentucky		3				3	228876	
LA	Louisiana	1	2			1	4	241148	
ME	Maine					2	2	16506	Г
MD	Maryland	1	3	<del>                                     </del>		6	10	106039	4
MA	Massachusetts	3	2	<del>                                     </del>	1	-	5	29653	一
		1	-	1			2	150070	一
MI	Michigan Mississippi	-	+	<del>                                     </del>	<u> </u>	5	5	12771	1
MS	Missouri	1	2	-			3	73312	ı İ
MO		1	-	1	<del> </del>		2	12073	$\vdash$
MT	Montana			1			2	5044	_
NE	Nebraska	4	1	<del> '</del>		5	10	3363089	+
NV	Nevada	1	<del></del>	-		3	7	60719	<del></del>
NJ	New Jersey		3			-3	6	3086894	<del> </del>
NM	New Mexico	4	2				5	134270	-
NY	New York	1	3	<u> </u>	5		11	343720	<u>'</u>
NC	North Carolina	3	3		3			10507	
ND	North Dakota	2		<u> </u>			3	30116	
OH	Ohio	1	1	ļ		1	5	155720	$\vdash$
OK	Oklahoma	3	2				4	69801	-
OR	Oregon	1	1 1	1		1		40635	-
PA	Pennsylvania		4	<u> </u>		2	6		-
RI	Rhode Island		ļ	ļ		1	1 1	1214	-
SC	South Carolina	2	1 1	<u> </u>	3	1	7	91839	
SD	South Dakota	1	<del> </del>				1 1	10632	
TN	Tennessee		1 1	<del> </del>		1	2	26074	
TX	Texas	7	6	2		3	18	1452976	+
UT	Utah	4	4	1	<b> </b>		9	874725	+
VT	Vermont			2			2	NA NA	+
VA	Virginia	1	9	1	1 1	10	22	261043	+
WA	Washington	2	2	ļ	ļ	5	9	438673	+
WI	Wisconsin		2				2	130066	_
WY	Wyoming	1	<u> </u>				1 1	5866	
		83	88	19	17	94	301	21554076	+

## **Summary-Level Study Data**

Table A4. Population indicators and factors.

	Area	(Sq Mi)			Poo	ulation			Popn	Metro	Metro	Total	Popn
	Total	Metro	1	Total (1,00			ropolitan (	1.000)	Dnsty	Popn %	Area %		h Rate
State	State	Portion	1997	1990	1980	1997	1990	1980	1997	1997	1997	90-97	80-90
AL	51716	16626	4322	4048	3900	2927	2716	2565	83.6	67.72	32.1	6.76	3.79
AZ	113713	61404	4553	3679	2738	3992	3214	2371	40.0	87.68	54.0	23.76	34.38
AR	52913	8841	2523	2354	2289	1224	1112	1028	47.7	48.49	16.7	7.17	2.87
CA	157776	93338	32182	29926	23801	31108	28957	23035	204.0	96.66	59.2	7.54	25.73
CO	104101	19126	3892	3304	2909	3268	2788	2424	37.4	83.96	18.4	17.80	13.58
CT	4977	3525	3267	3289	3113	2982	3012	2863	656.5	91.27	70.8	-0.66	5.65
DE	2055	1063	735	669	595	601	555	497	357.8	81.82	51.7	9.88	12.46
DC	66	66	530	604	638	530	604	638	8021.1	100.00	100.0	-12.24	-5.41
FL	55815	32205	14677	13019	9840	13640	12099	9126	263.0	92.93	57.7	12.74	32.31
GA	58629	13029	7490	6506	5486	5140	4374	3525	127.8	68.63	22.2	15.12	18.60
ID	83344	2790	1209	1012	948	458	364	324	14.5	37.88	3.3	19.47	6.74
IL	56299	17346	11989	11447	11435	10117	9590	9463	213.0	84.38	30.8	4.74	0.11
IN	36400	13906	5865	5555	5491	4206	3971	3885	161.1	71.72	38.2	5.58	1.17
IA	56258	6607	2854	2780	2914	1270	1203	1199	50.7	44.49	11.7	2.69	-4.61
KS	82197	5701	2601	2481	2369	1457	1337	1188	31.6	56.03	6.9	4.87	4.71
KY	40320	6581	3910	3693	3664	1889	1784	1737	97.0	48.32	16.3	5.90	0.77
LA	45836	14762	4354	4219	4223	3274	3159	3138	95.0	75.21	32.2	3.18	-0.09
ME	32162	5008	1242	1231	1127	496	496	453	38.6	39.93	15.6	0.86	9.27
MD	9740	5898	5095	4797	4228	4724	4454	3930	523.1	92.71	60.6	6.20	13.48
MA	8173	7304	6114	6018	5746	6023	5930	5668	748.2	98.50	89.4	1.60	4.74
MI	57899	15877	9780	9311	9256	8083	7709	7707	168.9	82.65	27.4	5.04	0.59
MN	84520	17881	4687	4387	4085	3276	3022	2682	55.5	69.88	21.2	6.84	7.40
MS	47619	5655	2732	2577	2525	971	876	809	57.4	35.56	11.9	5.99	2.06
MO	69833	12297	5408	5126	4922	3676	3497	3317	77.4	67.97	17.6	5.50	4.15
MT	147245	5369	879	800	789	294	270	265	6.0	33.43	3.6	9.86	1.40
NE	77330	2624	1657	1581	1572	855	790	730	21.4	51.58	3.4	4.83	0.53
NV	110670	32965	1679	1219	810	1441	1029	674	15.2	85.82	29.8	37.75	50.41
NH	9260	1987	1172	1112	924	733	688	555	126.6	62.53	21.5	5.42	20.30
NJ	7508	7508	8058	7758	7376	8058	7758	7376	1073.4	100.00	100.0	3.88	5.17
NM	121757	11789	1724	1520	1309	980	846	709	14.2	56.87	9.7	13.42	16.08
NY	48562	22841	18146	18002	17567	16663	16524	16153	373.7	91.83	47.0	0.80	2.48
NC	49048	17164	7431	6657	5899	4974	4399	3763	151.5	66.94	35.0	11.62	12.85
20 2	70812	6849	641	637	654	275	258	235	9.1	42.93	9.7	0.56	-2.60
OH OH	41194 70003	18431	11193	10862	10801	9066	8838	8793	271.7	81.00	44.7	3.05	0.57
OR	97074	12290 13864	3322	3147	3041	2004	1873	1734	47.4	60.32	17.6	5.55	3.50
PA	45360	21810	3243	2859	2641	2280	1997	1805	33.4	70.28	14.3	13.46	8.23
RI	1045	957	12011 987	11896	11868	10153	10094	10069	264.8	84.53	48.1	0.97	0.23
SC	30867	12510		1005	949	904	917	867	944.9	91.60	91.6	-1.73	5.88
SD	77195	4203	3788	3499	3135	2649	2432	2126	122.7	69.94	40.5	8.26	11.63
TN	42092	12910	738 5372	697	691	249	221	194	9.6	33.69	5.4	5.90	0.84
	264436	53622	19386	4891	4600	3648	3320	3064	127.6	67.91	30.7	9.84	6.31
ΰτ	84872	8340	2065	17045 1730	14338	16340	14227	11638	73.3	84.29	20.3	13.74	18.88
77	9603	1496	2005 589	564	1473	1586	1346	1141	24.3	76.82	9.8	19.38	17.46
VA	39820	14735			513	191	178	155	61.3	32.50	15.6	4.28	10.14
WA	67290	18963	6737	6214	5368	5257	4796	3986	169.2	78.03	37.0	8.43	15.74
WV	24229	3870	5614	4901	4155	4652	4066	3386	83.4	82.86	28.2	14.56	17.96
WI	56088		1815	1792	1951	759	748	796	74.9	41.83	16.0	1.27	-8.14
WY	97803	13228 8051	5201	4902	4712	3530	3339	3178	92.7	67.87	23.6	6.10	4.03
			480	453	474	142	134	142	4.9	29.63	8.2	5.87	-4.38
US .	3679192	717560	267744	249439	227225	214141	198978	178048	72.8	79.98	19.5	7.34	9.78

Table A5. Urban development, earnings, and proximity indicators and factors.

State	State Area 51716 13713 52913 57776 104101 4977 2055 66 55815 58629 33344 56299 36400 56258 32197 40320 45836	Urban D Acres 1997 2409.8 1675.2 1500.8 5687.1 1705.6 897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8		1997 20672 21998 19595 26314 27015 35863 28493 35704 24799 23882 20392	1990 15213 16608 14025 21363 19290 26453 21590 25646 19127 17385	1980 7737 9359 7476 11831 10748 12322 10614 12412 9957	DOD Prpty in MSAs  7 11 4 31 7 1	UrDvlp Area % 1997 4.66 1.47 2.84 3.60 1.64 18.02 11.56	90-97 35.88 32.45 39.71 23.18 40.05 35.57 31.97		UrDvlp Grwth 87-97 31.01 26.30 24.67 27.39 19.26 12.77 28.50	% DOD Prpty in MSAs 100.0 84.6 100.0 86.1 87.5 100.0
State	Area 51716 13713 52913 57776 14101 4977 2055 66 55815 58629 33344 56299 36400 56258 32197 40320	1997 2409.8 1675.2 1500.8 5687.1 1705.6 897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	1987 1839.4 1326.4 1203.8 4464.4 1430.2 795.4 184.9 NA 3752.7 2698.2 678.1 2874.9	20672 21998 19595 26314 27015 35863 28493 35704 24799 23882 20392	15213 16608 14025 21363 19290 26453 21590 25646 19127 17385	7737 9359 7476 11831 10748 12322 10614 12412	7 11 4 31 7 1	4.66 1.47 2.84 3.60 1.64 18.02	35.88 32.45 39.71 23.18 40.05 35.57	96.63 77.45 87.60 80.57 79.48 114.68	31.01 26.30 24.67 27.39 19.26 12.77	100.0 84.6 100.0 86.1 87.5 100.0
AZ 113 AR 52 CA 155 CO 100 CT 4 DE 2 DC 55 GA 56 ID 83 IL 56 IN 36 IA 56 KY 40 LA 45 ME 32 MD 53 MM 84 MM 85 MM 84 MM 66 MM 147	13713 52913 57776 04101 4977 2055 66 55815 58629 33344 56299 36400 56258 32197	2409.8 1675.2 1500.8 5687.1 1705.6 897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	1839.4 1326.4 1203.8 4464.4 1430.2 795.4 184.9 NA 3752.7 2698.2 678.1 2874.9	21998 19595 26314 27015 35863 28493 35704 24799 23882 20392	16608 14025 21363 19290 26453 21590 25646 19127 17385	9359 7476 11831 10748 12322 10614 12412	11 4 31 7 1	1.47 2.84 3.60 1.64 18.02	32.45 39.71 23.18 40.05 35.57	77.45 87.60 80.57 79.48 114.68	26.30 24.67 27.39 19.26 12.77	84.6 100.0 86.1 87.5 100.0
AZ 113 AR 52 CA 155 CO 100 CT 4 DE 2 DC 55 GA 56 ID 83 IL 56 IN 36 IA 56 KY 40 LA 45 ME 32 MD 6 MM 84 MM 84 MM 85 MM 84 MM 66 MM 147	13713 52913 57776 04101 4977 2055 66 55815 58629 33344 56299 36400 56258 32197	1675.2 1500.8 5687.1 1705.6 897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	1326.4 1203.8 4464.4 1430.2 795.4 184.9 NA 3752.7 2698.2 678.1 2874.9	19595 26314 27015 35863 28493 35704 24799 23882 20392	14025 21363 19290 26453 21590 25646 19127 17385	7476 11831 10748 12322 10614 12412	4 31 7 1	2.84 3.60 1.64 18.02	39.71 23.18 40.05 35.57	87.60 80.57 79.48 114.68	24.67 27.39 19.26 12.77	100.0 86.1 87.5 100.0
AR 52 CA 155 CO 100 CT 4 DE 2 DC 55 GA 56 ID 83 IL 56 IN 36 IA 56 KY 40 LA 45 ME 33 MD 56 MM 84 MM 84 MM 85 MM 86 MM 66 MM 147	57776 34101 4977 2055 66 55815 58629 33344 56299 36400 56258 32197	5687.1 1705.6 897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	4464.4 1430.2 795.4 184.9 NA 3752.7 2698.2 678.1 2874.9	26314 27015 35863 28493 35704 24799 23882 20392	21363 19290 26453 21590 25646 19127 17385	11831 10748 12322 10614 12412	31 7 1	3.60 1.64 18.02	23.18 40.05 35.57	80.57 79.48 114.68	27.39 19.26 12.77	86.1 87.5 100.0
CA 155 CO 100 CT 4 DE 2 DC 55 GA 56 ID 83 IL 56 IN 36 IA 56 KS 82 KY 40 LA 45 ME 33 MD 56 MM 84 MM 55 MM 84 MM 66 MM 147	04101 4977 2055 66 55815 58629 33344 56299 36400 56258 32197 40320	1705.6 897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	1430.2 795.4 184.9 NA 3752.7 2698.2 678.1 2874.9	27015 35863 28493 35704 24799 23882 20392	19290 26453 21590 25646 19127 17385	10748 12322 10614 12412	7 1 1	1.64 18.02	40.05 35.57	79.48 114.68	19.26 12.77	87.5 100.0
CT	4977 2055 66 55815 58629 33344 56299 36400 56258 32197	897.0 237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	795.4 184.9 NA 3752.7 2698.2 678.1 2874.9	35863 28493 35704 24799 23882 20392	26453 21590 25646 19127 17385	12322 10614 12412	1	18.02	35.57	114.68	12.77	100.0
DE 2 DC	2055 66 55815 58629 33344 56299 36400 56258 32197	237.6 NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	184.9 NA 3752.7 2698.2 678.1 2874.9	28493 35704 24799 23882 20392	21590 25646 19127 17385	10614 12412	1					
DC   FL   55   GA   56   S3   IL   56   S4   S4   S4   S4   S4   S4   S4   S	66 55815 58629 33344 66299 36400 56258 32197	NA 5448.7 4238.1 810.8 3261.5 2355.7 1802.8	NA 3752.7 2698.2 678.1 2874.9	35704 24799 23882 20392	25646 19127 17385	12412		11.56	31 97	103.41	28 20	
FL 55 GA 56 ID 83 IL 56 IN 36 IA 56 KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 55 MN 84 MN 84 MO 66 MT 147	55815 58629 33344 56299 36400 56258 32197	5448.7 4238.1 810.8 3261.5 2355.7 1802.8	3752.7 2698.2 678.1 2874.9	24799 23882 20392	19127 17385							100.0
GA 56 ID 83 IL 56 IN 36 IA 56 KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 55 MN 84 MS 47 MO 66 MT 147	58629 33344 56299 36400 56258 32197	4238.1 810.8 3261.5 2355.7 1802.8	2698.2 678.1 2874.9	23882 20392	17385	9957	3	NA	39.22	106.62	NA	100.0
ID 83 IL 56 IN 36 IN 36 IA 56 KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 55 MN 84 MS 47 MO 66 MT 147	33344 56299 36400 56258 32197	810.8 3261.5 2355.7 1802.8	678.1 2874.9	20392			22	9.76	29.65	92.10	45.19	91.7
IL 56 IN 36 IA 56 KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 55 MN 84 MS 47 MO 66 MT 147	56299 36400 56258 32197 40320	3261.5 2355.7 1802.8	2874.9			8426	9	7.23	37.37	106.33	57.07	75.0
IN 36 IA 56 KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 57 MN 84 MS 47 MO 66 MT 147	36400 56258 32197 40320	2355.7 1802.8		07000	15346	8575	1	0.97	32.88	78.96	19.57	20.0
IA 56 KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 57 MN 84 MS 47 MO 66 MT 147	56258 32197 40320	1802.8	1973.3	27688	20494	11021	4	5.79	35.10	85.95	13.45	100.0
KS 82 KY 40 LA 45 ME 32 MD 5 MA 8 MI 57 MN 84 MS 47 MO 66 MT 147	32197 40320			23202	17167	9327	- 2	6.47	35.15	84.06	19.38	40.0
ME 32 ME 32 MD 5 MA 8 MI 57 MN 84 MS 47 MO 69 MT 147	10320		1675.5	23120	16885	9495	1	3.20	36.93	77.83	7.60	50.0
ME 32 MD 5 MA 8 MI 57 MN 84 MS 47 MO 69 MT 147		2881.8	2605.5	23972	17940	9950	3	3.51	33.62	80.30	10.60	50.0
ME 32 MD 5 MA 8 MI 57 MN 84 MS 47 MO 69 MT 147	15836	1955.3	1435.7	20570	15085	8108	2	4.85	36.36	86.05	36.19	66.7
MD		1692.5	1412.0	20458	14773	8781	3	3.69	38.48	68.24	19.87	75.0
MA 8 MI 57 MN 84 MS 47 MO 69 MT 147	32162	746.6	532.8	21937	17159	8302	1	2.32	27.85	106.69	40.13	50.0
MI 57 MN 84 MS 47 MO 69 MT 147	9740	1290.6	1002.9	28674	22482	10926	7	13.25	27.54	105.77	28.69	70.0
MN 84 MS 47 MO 69 MT 147	8173	1549.0	1140.2	31239	23210	10780	5	18.95	34.59	115.31	35.85	100.0
MS 47 MO 69 MT 147	7899	3763.7	2953.7	24956	18699	10298	11	6.50	33.46	81.58	27.42	50.0
MO 69	34520	2360.9	1941.2	26243	19348	10156		2.79	35.64	90.51	21.62	00.0
MT 147	7619	1655.8	1279.6	18098	12706	6932	1	3.48	42.44	83.29	29.40 18.45	20.0 33.3
	9833	2652.5	2239.4	23629	17639	9365	1	3.80	33.96 30.74	88.35 70.07	27.26	50.0
	17245	881.3	692.5	19660	15038	8842 9139	1	0.60 1.64	34.68	91.88	8.70	50.0
	77330	1267.9	1166.4	23618 26514	17536 20209	11626	4	0.38	31.20	73.83	22.33	40.0
	0000	415.8 641.7	339.9 476.7	27766	20728	9917	-4	6.93	33.95	109.01	34.61	40.0
	9260 7508	1848.9	1490.2	32356	24883	11777	7	24.63	30.03	111.28	24.07	100.0
	21757	1324.6	895.5	19298	14480	8250	2	1.09	33.27	75.52	47.92	33.3
	18562	3373.2	2756.3	30250	23106	11043	3	6.95	30.92	109.24	22.38	60.0
	19048	4180.6	2905.9	23168	16649	8090	5	8.52	39.16	105.80	43.87	45.5
	70812	1152.2	1034.4	20103	15264	7803	1	1.63	31.70	95.62	11.39	50.0
	11194	3796.5	3009.9	24163	18116	9894	3	9.22	33.38	83.10	26.13	100.0
	70003	1996.7	1700.9	20305	15613	9463	3	2.85	30.05	64.99	17.39	60.0
	7074	1295.5	1071.3	23920	17423	9968		1.33	37.29	74.79	20.93	0.0
	15360	4335.5	2965.9	25670	19371	10030	4	9.56	32.52	93.13	46.18	66.7
	1045	204.8	177.5	25667	19698	9685	1	19.60	30.30	103.39	15.38	100.0
	30867	2325.3	1565.5	20508	15427	7648	4	7.53	32.94	101.71	48.53	57.1
	77195	1034.6	901.2	21076	15488	7852		1.34	36.08	97.25	14.80	0.0
	2092	2617.9	1775.7	22699	16309	8145	1	6.22	39.18	100.23	47.43	50.0
	64436	8984.1	7051.0	23707	17290	9939	15	3.40	37.11	73.96	27.42	83.3
	34872	760.4	594.3	20185	14214	8021	3	0.90	42.01	77.21	27.95	33.3
	9603	346.1	292.1	23017	17677	8629	2	3.60	30.21	104.86	18.49	100.0
	39820	2805.2	2127.9	26109	20021	9954	19	7.04	30.41	101.14	31.83	86.4
	7290	2213.6	1653.4	26451	19605	10787	8	3.29	34.92	81.75	33.88	88.9
	24229	986.1	633.2	18724	14176	8075		4.07	32.08	75.55	55.73	
	6088	2543.1	2129.6	24048	17692	9899		4.53	35.93	78.73	19.42	0.0
	7803	715.5	681.0	22596	17174	11469	1	0.73	31.57	49.74	5.07	100.0
US 367	I	105369.1	82010.4	25288	19156	10062		2.86	32.01	90.38	28.48	

Table A6. Department of Defense indicators and factors.

_	Installation Prpty Area	Spendi	ng (1M)	Employe	ees (1000)	Payroll \$ Per	Military Employee
State	(acres)	Contracts	Payroll	Civilian	Military	Employee	Per Area
AL	121175	2.107	2.150	22.1	15.6	57029	0.129
AZ	4310951	1,977	1,919	8.4	22.3	62508	0.005
AR	120710	191	764	3.7	5.2	85843	0.043
CA	3452967	18,477	12,396	79.0	122.0	61672	0.035
CO	420901	1,900	2,267	11.5	29.4	55428	0.070
CT	1812	2,536	602	2.8	5.7	70824	3.146
DE	3908	104	301	1.5	3.9	55741	0.998
DC	1842	1,526	1,192	12.8	14.5	43663	7.872
FL	656807	6.394	6,910	28.3	57.4	80630	0.087
GA	568567	3,950	4,090	31.8	62.9	43189	0.111
ID	119994	147	345	1.4	4.5	58475	0.038
IL	5892	1,248	2,073	14.7	30.4	45965	5.160
IN	119564	1,721	867	9.9	1.3	77411	0.011
IA	23524	438	250	1.5	0.5	125000	0.021
KS	166761	688	936	5.7	16.7	41786	0.100
KY	228876	1,201	1,433	7.8	33.9	34365	0.148
LA	241148	1,759	1,283	8.0	17.5	50314	0.073
ME	16506	946	544	5.2	2.0	75556	0.121
MD	106039	3,889	3,346	33.9	30.5	51957	0.288
MA	29653	4,910	866	7.4	3.3	80935	0.111
MI	150070	1,101	805	7.9	1.2	88462	0.008
MN		1,091	407	2.5	0.9	119706	0.000
MS	12771	1,431	1,277	9.7	12.4	57783	0.971
MO	73312	4,766	1,407	10.5	15.1	54961	0.206
MT	12073	81	255	1.2	3.6	53125	0.298
NE	5044	261	691	3.6	9.0	54841	1.784
NV	3363089	257	726	2.1	7.8	73333	0.002
NH		388	272	1.3	0.4	160000	
NJ	60719	3,016	1,589	18.1	7.5	62070	0.124
NM	3086894	512	1,129	8.1	13.2	53005	0.004
NY	134270	3,178	1,675	12.3	18.9	53686	0.141
NC	343720	1,110	4,062	17.3	91.9	37198	0.267
ND	10507	127	370	1.7	8.7	35577	0.828
OH	30116	2,676	2,256	26.1	8.2	65773	0.272
OK	155720	751	2,085	19.4	27.1	44839	0.174
OR	69801	168	517	2.8	0.9	139730	0.013
PA	40635	3,039	2,213	29.9	3.6	66060	0.089
RI	1214	275	481	4.5	3.3	61667	2.718
SC	91839	919	2,127	10.2	33.7	48451	0.367
SD	10632	89	230	1.3	3.1	52273	0.292
TN	26074	1,211	924	5.0	1.9	133913	0.073
TX	1452976	7,411	8,070	49.7	111.0	50218	0.076
UT	874725	442	892	12.4	4.9	51561	0.006
VT	NA NA	97	88	0.5	0.1	146667	NA .
VA	261043	11,188	10,544	82.0	84.5	63327	0.324
WA	438673	2,517	3,713	23.8	37.9	60178	0.086
WV	100000	150	275	1.8	0.5	119565	
WI	130066	565	403	3.2	0.7	103333	0.005
WY	5866	48	214	1.0	3.5	47556	0.597
US	21559446	106,561	97,296	689.2	1045.3	56095	0.048

Notes: Population and earnings data were obtained from the Regional Economic Information System (REIS) produced by the US Department of Commerce Bureau of Economic Analysis. Urban development acreages were obtained from the National Resources Inventory (NRI) produced by the US Department of Agriculture Natural Resources Conservation Service. Department of Defense (DOD) data was obtained from the US Census Bureaus's 1999 Statistical Abstract of the United States.

Table A7. County of residence level risk rankings for all properties.

Γ						٥	Community Size			1000	Fronomic Strength		1			٥		L	Г
						Donulation	ation	11-0-11	Population	ation of	Farn Der Canita	Canita	FIOXIIIITY		Milita	Military Employment	ovment	*	
		Area	_	Resident	F	-	Dusity City/20mily		Growth %	*	Grwth%	2	Proximity	¥	JO %	Change	Per DOD		
Dept.	Property	(acres)	ST	Cnty	1997		1990		90-97	85-90	90-97	1997	Class	Risk	Templ	85-97	85-97 Area		<u></u>
Naw	WFNAS - Silverhill Fld	NA	٩r	Baldwin					9		6					184	137		П
	WFNAS - Summerdale Fld	NA	AL	Baldwin					9		9					184	137		
	WFNAS - Barin Fld	920	۷ľ	Baldwin					9		6					184	137		
È	Army Anniston Army Depot	15279	٩٢	Calhoun									3			22			
Army	Fort Rucker	63232	٩٢	Dale											194	58			
Army	Redstone Arsenal	37910	٩r	Madison									2			41			
AF.	Maxwell AFB	4104	٩٢	Montgomery	_								2				143		
È	Army Ft Huachuca - Dry Lake EPG	30740	ΑZ	Cochise											188				
È	Army Fort Huachuca	73272	ΑZ	Cochise											188				
Army	Camp Navaho	28400	ΥZ	Coconino					40	33	41				&		11		
Navy	Naval Obervatory - Flagstaff	ΝA	ΥZ	Coconino	L				40	33	41				8		11		
	Luke AFB - ALF 1	1105	ΥZ	Maricopa	3				13	34						32	153		
¥	Luke AFB	4199	ΑZ	Maricopa	3		22		13	34			2	γ		32	153	Σ	
	Buckeye Nat'l Guard Target Range	ΝA	ΑZ	Maricopa	3				13	34						33	153		
AF	Davis-Monthan AFB	10633	ΑZ	Pima	19				41				2	>		202		_	
Ā	Rittenhouse Training Area	480	ΑZ	Pinal					50						41		14	_	
Army	Camp Florence	25752	ΑZ	Pinal					50						4		14	_	
Ę	Army Yuma Proving Ground	1009376	ΑZ	Yuma					34	೮							2		7
¥	Barry M. Goldwater Range	2664423	ΑZ	Yuma					34	13			3				7		
Š	Yuma MC Air Station	462571	ΑZ	Yuma					34	13			7				7	A	1
È	Army Pine Bluff Arsenal	14500	AR	Jefferson									2				28		T
È	Army Camp Robinson	33000	AR	Pulaski				38			ಜ	32	7	>		ස		エ	
AF	Little Rock AFB	7210	AR	Pulaski				88			ಜ	ક્ક	2	>		္တ		エ	
Army	Fort Chaffee	00099	ΑB	Sebastian									2				6		٦
Army	Camp Parks	2705	CA	Alameda	6	6	21	21				12	. 2	>	ន	2	146	픠	
Navy	Concord Ocean Terminal	2600	S	Contra Costa	16	22	23	24				Ŧ	2	>	83	45		王	
	Seal Beach NWS - Concord	5200	CA	Contra Costa	16	22	16	24				Ξ	2	>	23	45		픠	
Navy	Chocolate Mountains Range	NA	S	Imperial					9								6	$\dashv$	
Naw	El Centro Bombing Range	26000	S	Imperial					10							_	6		
Naw		3000	CA	Imperial					10				1				6	_	
Navy	China Lake NAWS	1102344	გ	Kem	30					ജ							2		٦
AF	Edwards AFB	300723	5	Kem	೫	-				8			တ	>			ည	프	
avy	Navy Lemoore NAS	39173	ర్	Kings/Fresno						Ø					138			_	
rmy	Army   Sierra Army Depot	36000	S	Lassen					28	40							4		
١																			

						Commo	Community Size			Conom	Economic Strenath	١	Orovin lb.			Ş		Γ
						Population	5	UrDvio	Population		Earn. Per Capita	Capita	UA N		Mail:	Military Employment	vment	₹
3		Area	į	Resident	Total	Dnsfty	Dnsity City(20ml)	Cuty	Growth %		Grwth%		Proximity	₹	8	Change Per DOD	Per DOD	Alsk A
E DE		(acres)	S	Cnty	1997	%	1990	8	20-97	85-90	20-97	1997	Class	Risk	Templ	85-97	Area	Level
Nav.	_		П	Los Angeles	-	8		16				39			5	4	¥	
A <sub>M</sub>				Monterey								37	2			က	9Z	
Amy				Monterey								37				3	92	
Nav	Seal Beach NWS	- 1	5	Orange	4	3	2	9				14	-	>		4		Ξ
ᅬ	_	6885		Riverside	7		19		90	2			2	>	18	ี่		ェ
Nav	China Lake NWC			San Bernardino	9					2						2	72	
A I		636214		San Bernardino	9					2						9	4	
ပ္	Barstow MC Logistics Base	5704		San Bernardino	9					2						9	4	
ဋ	Twentynine Palms	603617	Ϋ́	San Bernardino	9					2				Γ		9	4	
9	Camp Pendleton		- 1	San Diego	2	39	31			28			2	>		-		Ξ
Nav	Seal Beach NWS - Fallbrook		- 1	San Diego	2	39			-	28			2	>		-		Ξ
Š Š	Miramar MCAS		5	San Diego	2	39	12			28			8	>		-		Ŧ
Nav			- 1	San Diego	2	33	13			28			1	>		-		Ξ
Navy			П	San Diego	2	39	13			28			2	>		-		Ξ
Navy	San Diego Nvl Station		- 1	San Diego	2	33	14	_		88			-	>		-		Ξ
Navy	Coronado NAB		- 1	San Diego	2	39	14			28			2	>		-		Ξ
Naw	North Isl NAS - Imp'l Beach			San Diego	7	33	15			28			-	>		-		Ŧ
Navy		$\neg$	П	San Joaquin	용					35			2	7	9			Ŧ
Army	DDD San Joaquin - Lathrop	$\neg$		San Joaquin	8					35			3	Υ	10			I
Army	Camp Roberts	42784	$\neg$	San Luis Obispo						31					2		12	
	Vandenburg AFB			Santa Barbara								23	-2				32	
₩.	Travis AFB		$\neg$	Solana			88			∞			2	γ		33		Ŧ
Nav	Port Hueneme CBC			Ventura	24							30	2	Y				Σ
Naw	Point Mugu NWS		آر	Ventura	24	Ì						30	2	Υ	_			×
ã	Navy Point Mugu NWS-San Nicolas Isl	- 1		Ventura	24							30						
농	Beale AFB	- t		Yuba									3		186			
<b>Amy</b>	Buckley ANGB	3832	8	Arapahoe	용	42	12		88		22	6	2	Υ	38	199		Σ
¥	USAF Academy	- 1	ᅬ	El Paso	88				53		38		2	Υ	173	20		Σ
$\neg$	USAFA - Farish Rec Area			El Paso	38				83		38				173	<u>ଅ</u>		
농	Peterson AFB	- 1		El Paso	38				23		88		2	>	173	ន		≥
$\neg$	Fort Carson	137400		El Paso	38				29		38		2	>	173	82		≥
¥	NORAD COC Cutr			El Paso	38				29		38		2	>	173	8		≥
	Fort Carson - Pinon Canyon		8	as Animas											뚕		-	
	Pueblo Ordnance Depot	$\neg$		Pueblo	1						15				24		12	
Navy	New London Sub Base	1812		New London								18	2	$\vdash$		21	191	

					L	Comir	Community Size		[	Conon	Economic Strength		Drovimity	Γ		000 000		
						Population	ion	UrDvlp	Population	ation	Earn. Per Capita	Capita	MA M		Militar	Military Employment	vment	
į		Area	Ļ	Resident	Total	Dusity	Dusity City(20ml)	Cut	Growth %	% =	Grwth%	s	Proximity		) 50%	Change		Risk
Dept.	Property		2	Cury	1997	%	1990	%	90-97	85-90	90-97	1997	Class	HISK H	Templ	85-97	Area	Levei
Navy	Anacostia Nvl Station	292	8	Washington	35	_	4	-			32	8	-	>			167	_
ΑF	Bolling AFB		റ്റ	Washington	32	-	2	-			32	8	-	>			167	
Navy	NvI Research Lab. DC		2	Washington	35	-	9	1			32	8	1	Υ			167	٦
ΑF	Dover AFB	3908	DE	Kent									2					
	Panama City NCSS		FL	Bay									-					
	Tyndall AFB	29102	FL	Bay									2					
_	Cape Canaveral AFS	15435	F	Brevard	42					21			2	≻				Σ
	Patrick AFB		FL	Brevard	42					21			2	Υ				Σ
Navy	Stevens Lake Range		FL	Clay					16	15						185	NA	,
ΑF	Homestead ARB		FL	Dade	5	22		36					2		17	22	165	
Naw	Mayport Naval Station		FL	Duval	21	30	22	23					2			17	160	
Navy	Jacksonville NAS	3923	FL	Duval	21	30	49	23					1			17	160	
Navy	Kings OLF	NA	H	Escambia				41					3		172	211	144	
Navy	WFNAS - Saufley Fld		교	Escambia				41					2		172	211	144	
Navy	Corry Station Trng Center		냄	Escambia				41					1		172	211	144	
Navy	Pensacola NAS	7336	근	Escambia				41					2		172	211	144	
AF	MacDill AFB		H	Hillsborough	15	34	27	32			40		2	Υ			138	
Navy	Navy Pinecastle Target Range	- 1	교	Marion					35	=					15	<del>1</del> 9		
Navy	Navy Key West NAS	5293	교	Monroe								16						
ΑF	Eglin AFB	463452	교	Okaloosa									2		192	509	52	
ΑF	Avon Park Range	100929	겁	Polk											7	176	10	
Navy	Rodman Bombing Range	W	교	Putnam													ΑĀ	
Navy	Whiting Field NAS	10761	교	Santa Rosa					4	9								
Navy	WFNAS - Harold OLF	¥	교	Santa Rosa					4	9								
Navy	WFNAS - Spencer OLF	Α	교	Santa Rosa					4	9			တ					
Navy	WFNAS - Santa Rosa OLF	A	르	Santa Rosa					4	9								
Navy	WFNAS - Choctaw OLF	¥	교	Santa Rosa					4	9								
Navy	WFNAS - Holley OLF	640	교	Santa Rosa					4	16			က					
Navy	Kings Bay Nvl Submarine Support	16667	ВĄ	Camden					3	-					203	210		
Army	Fort Benning	184051	Ğ	Chattahoochee							8		2		214	23		
Army	Fort McPherson - Fort Gillem	1424	æ	Clayton		<b>œ</b>	47	13					-		31			
ΑF	Dobbins AFB	1913	βĄ	Cobb	83	14	88	8	ន	1		12	-	>		138		_
Army	Army Fort Stewart - Hunter AF	5370	₽	Cobb	ಜ	=		8	ಣ	1		12	2	>		138		
ပ္ဆ	MC MC Logistics Base Albany	3841	8	Dougherty							92		2					
Army	Army   Fort McPherson	487	8	Fulton	×	6	39	7			9	2	_	<u>&gt;</u>	16		166	Σ

					L	Comic	Community Size			1000	Fonomic Strength				L	5		ſ
						Population	S	1 P.D.th	Pomilation	ation	Farn Dar Canita	Sire of	PTOXIMITY			Military Employmont	- tuomi	*
ı		Area		Resident	Total	Dnstty	City(20ml)	Cut	Growth %	- % #	Grwth%	5	Proximity	₹	8	Change Per DOD	P DOD	Risk A
Dept.	Property	(acres)	ST	Cnty	1997	%	1990	`%	26-06	85.98	90-97	1997	Class	Hisk A		85-97		Level
₹	Robins AFB		П	Houston									2			Ŕ	T	Γ
Army	Fort Stewart	ı	ĕ	Liberty						36	2		က		213	802		
¥Ε	Moody AFB		Ą	Lowndes							æ					197		
ဋ	Beaufort MCAS - Townsend Range	5183	Ą	McIntosh													8	
Army	Fort Gordon		g,	Richmond				22					2			e		
	Boise Air Terminal	1994		Ada					7		13	21	-		æ	191		
ī	Mountain Home Small Arms Range		QI	Elmore					42						207	55		
			Q	Elmore					42						207	8		
J		¥	Ω	Owyhee					ಜ್ಞ								-	
	Saylor Creek Tmg Range	109000	Ω	Owyhee					88								-	
	Great Lakes Trng Cntr	1030	ار	Lake	32	21	30	26			16	2	2	>			169	_
Army	CM Price Support Cntr	88		Madison			24						-		12		-	
$\overline{}$	Rock Island Arsenal	946	اب	Rock Island				35					_		82			
농	Scott Air Force Base	3230	ار	St. Clair									3				149	
Army	Camp Atterbury	$\neg$	z	Bartholomew							39				6		_	
Army	Indiana AAP			Clark							42		3		83		ន	
	Crane NSW Cntr	П	Т	Martin													က	
_	Grissom ARB		z	Miami												38	32	
	Newport AAP		z	Vermillion													9	
_	lowa AAP	$\neg$	_	Des Moines													=	
Army	Camp Dodge	- 1		Polk		41		33				19	2	>		189		≥
Army	Army Fort Riley		হ	Geary/Riley											508	16		
Army	Army Sunflower AAP	- 1	$\neg \tau$	Johnson		33		31	89	83	29	7	3	٨	36			Ξ
Army	Army Kansas AAP	- 1	7	Labette					7								8	
Army	Army Fort Leavenworth			Leavenworth											182			
¥.	Smoky Hill ANG Range	П	╗	Saline								32			33		8	
_	8	Ŧ	П	Sedgwick				8		7			2			-	142	
Army	lled	_	7	Christian									2		211	205		
Army		7	<u></u>	Hardin									က		195	11		
Army	Army Blue Grass Army Depot	$\neg$	≥	Madison							30						16	
¥	Barksdale AFB		≤	Bossier							=		2		<u>₹</u>	186		
	ans NAS	$\neg$	5	Plaquemines			42						2			187		
_		7		Vernon					7		21				208	15	31	
	Louisiana AAP	14974 L	Т	Webster					1							173	15	
Naw	Brunswick NAS	7	WE	Cumberland					1	$\exists$		R		7				

						Comu	Community Size		"	conom	Economic Strenath		Drovimity			8		
						Population	uo	UrDvlp	Population	ation	Earn. Per Capita	Capita	MA M		Militar	Military Employment	yment	¥
		Area	į	Resident	Total	ty	ᇙ	Cuty	Growth %	# %	Grwth%	•	Proximity		) % Ot	Change	Change Per DOD	Risk
Dept.	Property	П	S	Cuty	1997	%	1990	%	90-97 85-90	85-99	26-06	1997	Class	HISK T	Templ	85-97	Area	Leve
Navy	US Naval Radio Station		Æ	Washington														
Army	Fort Meade	5415	Ð	Anne Arundel	39	24	3	30				17	2	>			148	ᆈ
Navy	Naval Academy	2001	MD	Anne Arundel	39	24		30				17	2	γ			148	٦
Navy	Solomon's NRC	NA	MD	Calvert					5	9		42				188	NA	
Navy	Naval SWC- Indian Hd		MD	Charles			99			18			3	λ				M
	Blood Isl Range-Little Crk Fld		QW	Dorchester													19	
	Fort Detrick	1200	MD	Frederick					27	30		33	-			183	140	
Army	Aberdeen Proving Ground	72500	MD	Harford			25			22			3	γ				Σ
	Andrews AFB	7550	MD	Prince Georges	20	15	10	12					1					
Navy	Patuxent River NAS		MD	St Marys						27								
Navy	PR NAS - Webster Fld		Ω	St Marys						27								
AF	Otis ARNG/Camp Edwards	21000	MA	Barnstable								13	3					
ΑF	Westover AFB		MA	Hampden		37		78					2		33			
ΑF	Hanscom AFB	846	MA	Middlesex	8	11	8	15			36	9	2	γ	40	12	163	H
Army	Natick Soldier Center		MA	Middlesex	8	11	18	15			36	9	2	Υ	40	12	163	Ŧ
Army	Devens Res. Trng Area		MA	Worcester	23		59					31	3	Υ	30			π.
Army	Camp Grayling	147000	Ξ	Crawford						37					14		1	
ΑF	Selfridge ANGB	- 1	₹	Macomb	9	12	Ξ	6				40	2	>	=			=
Navy	Construction Batallion Cntr	4771	S§	Harrison							4		-		181	32	53	
Navy	Meridian NAS - Williams Fld	NA	S₩	Kemper							12						NA	
Navy	Meridian NAS	8000	WS	Lauderdale							27							
Navy	Multipurpose Target Range	NA	ΜS	Noxubee							5						¥.	
Navy	Alpha NAAS		Sign	Noxubee							2						Ν	
Army	Lake City AAP	- 1	§	Jackson	8	27	44	17					3					
ΑF	Whiteman AFB	- 1	કુ	Johnson											187			
Army	Fort Leonard Wood	- 1	§	Pulaski							7				210			
ΑF	Malmstrom AFB	3573	₹	Cascade									2					
Army	Fort William H Harrison	8200	Σ	Lewis & Clark													27	
ΑF	Offutt AFB	4044	빌	Sarpy									2		196	26	150	
Army	Mead ARNG	1000	빌	Saunders														
Navy	Fallon NAS - Bravo 20	41007	≩	Churchill					14	20					175	194	9	
Navy	Fallon NAS	126789	⋛	Churchill					14	ଯ					175	194	9	
Navy	Fallon NAS - Bravo 16	17280	≩	Churchill					7	ន					175	194	9	
Navy	Navy Fallon NAS - Bravo 17		≩	Churchill					14	ଛ					175	194	9	
Navy	Navy Fallon NAS - Bravo 19	17330	≩	Churchill					7	ន					175	194	9	

						ဦ	Community Size		L	Econon	Economic Strength		Provimity			8		
						Population	tion	UrDvip	Popu	Population	Earn. Per Capita	Capita	UA V		Milita	Military Employment	yment	¥
į		Area	į	Resident	Total	Dnsity	ᇙ	Cuty.	Š Š	Growth %	Grwth%	•	Proximity	¥	% O	Change Per DOD	Per DOD	똜
	_	(acres)	SI	Cnty	1997	<b>≫</b>	1990	8	90-97	85-90	20-97	1997	Class	Risk	Tempi	85-97	Area	Level
岁	Nellis AFB - Indian Springs		≩	Clark	12				2	4		34						
뉟	Nellis AFB Sm Arms Rng	Т	≩	Clark	12		55		2	4		34	3	>				×
농	Nellis AFB	6400	≥	Clark	12		51		2	7		34	2	>				Σ
Nav	Hawthorne Army Depot	T	N	Mineral											22		-	
岁	Nellis Air Force Range		N	Nye					_	4					27		-	
Army		30997	N	Burlington				39				ผ	8	>		6		F
₽	Mc Guire AFB		3	Burlington				39				22				6		
Nav	Earle NWS - Waterfront		3	Monmouth	31	ຂ	-	22				10	-	>				Σ
Army	_		2	Monmouth	31	ଛ		22				9	-	>				Σ
Nav		10000	Z	Monmouth	31	20		22				9	2	>				Σ
Army	_		2	Morris	43	೪	41	27				-	2	>	-			Ŧ
Nav				Ocean	37	32		37				88	2	>				×
¥	Kirland AFB		M	Bernalillo	98			42			88		2	>				Σ
¥	Cannon AFB		Ž	Curry											199	192		
À	Army White Sands Missile Rng	2285327	ΣN	Dona Ana					22	88						178	-	
AF	Holloman AFB		$\neg$	Otero											197	98	7	
~ 1			ΣŽ	Otero									က		197	98	7	
¥	Melrose Range	П	¥	Rooseveit													≨	
~ [	Fort Drum		ž	Jefferson						6					198	214		
	Hancock Field	$\neg$		Onondaga	41								2		4		158	
ပ္သ	MC Reserve Trng Cntr			Onondaga	41								1		4	Ī	158	
Amy	USMA West Point	Т	- 1	Orange									3					
Army	Seneca Army Depot		- 1	Seneca						-					56		8	
- 1	Ocean Terminal Sunny Point		T	Brunswick					8	41			3			179	15	
T	Cherry Point Range BT-9	7		Carteret							18							
$\neg$	Cherry Pt MCAS - Bogue Fld		ပ္	Carteret						-	18							
	Cherry Point MCAS		$\neg \tau$	Craven							20				191	37		
- 1	Fort Bragg	$\neg$		Cumberland				6			3		2	Υ	205			
¥	Pope AFB		ည	Cumberland				40			3		2	Υ	205			_
岁	Cherry Pt Dare Cty Rng			Dare					56	3						182	22	
aw	Navy Cherry Pt MCAS - OakGrove Fld	$\neg$	ပ္	Jones							9						24	
	Camp LeJeune		2	Onslow							1		2		212			
J	Fort Bragg - Camp Mackall	6542		Richmond													20	
- 1	Seymour Johnson AFB		<u>ي</u> ک	Wayne							25		2			-	141	
¥	Grand Forks AFB	_		Grand Forks									3		174			

					L	Com	Community Size			Conom	Economic Strength		Dravimiliu			g	l	
						Donilo	lion .	Ι.	1000	20190	Corn Dor	Spiles	PIOXIMITY		Militor	Sum 3	1000	
		4.00		, achieve		ropulation	uon Coortico	Orong Orong	Population	Population Croumb 9/	Earn. Per Capita	apita	AD OF	¥	MIIITA	Military Employment	ment	¥ 2
Dept.	Property	(acres)	ST	Cnty	1997	VIISITY %	1990 1990	Ē%	26-06	85-90	90-97	1997	Class	Risk	Temp	55-97	Change Per DOD 85-97 Area	Level
Ą	Minot AFB	5085	Q	Ward											185			Γ
Navy	DSC - Columbus	551		Franklin	13	9	40	14				53	1	Υ	3		162	Σ
	Wright-Patterson AFB	8145	Ю	Greene				43					2					
Army	Ravenna AAP	21420		Portage			90						3		21		18	
Army	Fort Sill			Comanche									2		201	19		
	Vance AFB		U	Garfield														
	Altus AFB	6981	š	Jackson											190			
_	Tinker AFB		ð	Oklahoma	53	31	46	20					1				152	
Army	McAlester AAP	44964		Pittsburg													9	
Army	Camp Rilea	1 1	R	Clatsop												175		
ΑF	Kingsley Field AGS	1072	OR.	Klamath														
√avy	Navy Whidbeylsl NAS-Boardman Rng	47000	ОВ	Morrow					15								2	
\rmy	Army Umatilla Chemical Depot	19729	S.	Umatilla													12	
Army	Site R - Raven Rock (AJCC)	718	PA	Adams														
Army	DDD Susquehanna	848	ΡA	Cumberland								26	2					
Navy	Nvi Inv. Control - Mechanicsburg	824	Ā	Cumberland								26	-					
Army	Fort Indiantown Gap	17902	ΡA	Dauphin								27	3		9			
Army	Letterkenny Army Depot	19243	PA	Franklin											37		21	
Navy	Willow Grove NAS	1100	ΡA	Montgomery	52	16	7	10				3	2	>	42		159	Σ
Navy	Newport Nvl Trng Cntr	1214	굔	Newport		28	52					24	2	<b>&gt;</b>			157	ب
2	Beaufort MCAS	2800	သွ	Beaufort					21			41			193			
MC	Beaufort MCAS - Laurel Bay Hous- ing	1100	သွ	Beaufort					72			4	:		193			
2	Parris Island Recruit Depot	8113	SC	Beaufort	.				21			41			193			
Navy	Charleston NWS	17429	သင	Berkeley									2				33	
AF	Charleston AFB	3733	သင	Charleston									-			2	154	
Army	Army   Fort Jackson	52301	သွ	Richland									2			40		
ΑF	Shaw AFB	8383	သွ	Sumter									2		180		145	
AF	Ellsworth AFB	10632	SD	Pennington									က			34		
Army	Milan Arsenal	22624	Z	Gobson							34						6	
Navy	Memphis NAS	3450	₽	Shelby	2	ន	53	19	_		17	83	8	>		7	139	Σ
Army	Camp Swift NG Facility	11700	Ě	Bastrop					Ξ		31					177	12	
Army	Fort Hood	217345	ĭ	Bell	_						37		2		50g	212		
Army	Army Camp Bullis	12000	ĭ	Bexar	9	æ	34	83			24		7	>		82		ェ
ĄF	Randolph AFB	5044	ĭ	Bexar	2	82	ဆ	83			24		2	<u>&gt;</u>		8		Ξ

			L		L	S	Community Size		"	E	Fronomic Strangth					5		
						Donnlation	2	1	Donifotion		Earn Doc	1	Proximity					
1	·	Area		Resident	Total	Dustry	Clty(20ml)	S Aug	Growth %	—	Grwth% S	200	Proximity	¥	W C	Military Employment	inent Pon	A K
Dept.	Property	(acres)	ST	Cnty	1997	96	1990	*	20-97	85-90	90-97	1997	Class	Risk	Temp	Templ 85-97 Area		Level
Army	Fort Sam Houston	3260	ĭ	Bexar	10	56	34	23			24		-	>		200		Ξ
¥	Lackland AFB	6754	×	Bexar	10	56	35	53			24		2	λ		28		Ξ
¥.	Brooks AFB	1310	ĭ	Bexar	9	92	85	29			24		-	>		82		Ŧ
Amy	Red River Army Depot	19081	ĭ	Bowie									8		13		13	
Amy	Fort Bliss	1126514	×	El Paso	56	98							2			53	9	
Army	Longhom Ordnance AAP	8493	ĭ	Harrison					-	H					8		28	
Navy	Kingsville NAS	16334	Σ	Kleberg						T	88						8	T
Naw	Corpus Christi NAS	4506	×	Nueces						T			2			8		Τ
Army		¥	ĭ	Parker					ಕ	62						T	ž	
₹	Carswell Air Reserve	A	ΤX	Tarrant	11	17	88	8				88	-	>	6	T	¥	=
¥	Dyess AFB	6405	ĭ	Taylor									2			T		-
₹	Goodfellow AFB	1136	×	Tom Green									3			206	156	
¥	Laughlin AFB	5131	×	Val Verde					T	T		Ī				Т		
¥	Sheppard AFB	6158	X	Wichita					T	T			2		176		138	
Ą	Hill AFB	8699	Ţ	Davis					33		19		-			T		Π
Army	Green River Launch Cmplx	Ą		paud					8								<b> </b>	
Ā	Hab Test Bance (North)	4	5 5	Tooch		1	$\dagger$		3 5	$\dagger$				1	1		¥	
Ų	Hab Tool Banco (Court)	5	Ι.	appl		1			) }	†		1				1	-	
ξ.	Olail Test name (South)	Ž	5	9900					37	1							-	
	locele Army Depot	25172	5	Tooele					37								1	
Army	Dugway Proving Grounds	798855	5	Tooele					37								-	
Army	Deseret Chemical Depot	19000	5	Tooele					37					Γ			-	
_	Camp Williams	25000	5	Utah			48		17		14		2	>				≥
	Hill AFB - Little Mountain Annex	¥	П	Weber												-	¥	
$\overline{}$	Camp Johnson	¥	5	Chittenden								28	2			174	¥	
	Ethan Allen Fining Range	Т		Chittenden					$\vdash$			28				174	¥	
- 1	Fort A. P. Hill	$\neg$	П	Caroline					-								3	Γ
	Oceana NAS - Fentress			Chesapeake		43	ဆ		12	23			2	λ		203	-	_
Army	Fort Pickett	Т		Dinwiddie						_							7	
T	Fort Belvoir			Fairfax	4	9	6	11		42		4	2	>		31	-	Ŧ
	Langley AFB	$\neg$		Hampton		2	27	4					-		183	-	151	
	Fort Monroe	. [	П	Hampton		2	52	4					2		183	_	151	
_	Naval SWC - Dahlgren	Т	T	King George					19	24						200		
	Fort Eustis	Т	$\neg$	Newport News		,		2					2			-		
Navy	Norfolk Naval Station	3400	ĕ ≶	Norfolk	1	~	ន	7	$\dashv$	$\dashv$			2		<u>\$</u>	9	168	

					L	<u>ලි</u>	Community Size	-		Econon	Economic Strength		Provimity			gog		
						Popu	Population	UrDvlp	Popu	Population	Earn. Per Capita	Capita	Ă		Milita	Military Employment	yment	¥
		Area		Resident	Total		Dnsity City(20ml)	Cuty	S S	Growth %	Grwth%	49	Proximity	Αŧ	% Of	% Of Change Per DOD	oer DOD	Risk
Dept.	Property	(acres)	ST	Cnty	1997		1990	%	90-97	90-97 85-90	90-97	1997	Class	Risk	•	85-97	Area	Level
Army	Craney Island FISC Fuel Depot	NA	٧	Portsmouth		4	20	3					7		177	195	164	
Navy	Norfolk Naval Shipyard	801	≶	Portsmouth		4	56	3					1		177	195	164	
Army	Fort Lee	5574	¥	Prince George									2		200			
MC	Quantico MC Base	60483	Κ	Prince William		35			98	7			3	Y		204		Ļ
Army	Army Radford AAP	3450	٧A	Pulaski													48	
Army	Radford AAP - New River Unit	3450		Pulaski													18	
Army	Fort Story	1451	٧	Virginia Beach		13	37			12			2	Υ	179	24		Σ
Navy	Little Cr. NAB	2120	Υ	Virginia Beach		13	82			12			7	γ	179	24		×
Navy	Navy Oceana NAS		Ν	Virginia Beach		13	36			12			-	γ	179	24		Σ
Navy	Dam Neck Trng Cntr	1303	ΥA	Virginia Beach	Ш	13	43			12			-	γ	179	24		M
Navy	Navy Camp Peary	9274	Α	York		38			6				တ	>		181		7
Navy	Navy Yorktown NWS	13248	٨	York	Ш	88			6				2	7		181		_
Navy	Navy Yorktown NWS - Cheatham	1579	⋠	York		38			6				2	Υ		181		1
Navy	Whidbey Island NAS	Ν	WA	Island		$\square$				10					202	202		
Navy	Navy Whidbey Isl NAS - Ault Field	71059	×	Island						10					202	202		
Navy	Navy Indian Island Nvl Magazine	2700	ĕ	Jefferson					18	56						172	30	
Navy	Navy Bangor Nvi Sub. Base	6527	ΑM	Kitsap		40	20		24	32			2	>	189	213	147	٦
Navy	Puget Sound Nvl Shipyard	1577	WA	Kitsap	_	<del>4</del>	45		54	32			-	>	189	213	147	-
ΑF	McChord AFB	4616	ĕ	Pierce	27								2			8		
Army	Fort Lewis	86176	¥	Pierce	27								2			8		
Ą	Fairchild AFB	4551	¥	Spokane														
Army	Army Yakima Firing Center	323400	×	Yakima		_							3				4	
Army	Army Volk Field CRTC	2336	₹	Juneau													29	
Army	Army Fort McCoy	127730	×	Monroe													3	
ΑF	Francis E Warren AFB	5866	ĭ	Laramie		$\dashv$							2	$\perp$				

### **County of Residence Level Source Data and Factor Development**

Table A8. Population indicators and factors.

			Resident	County Area		tal Popula	ition	City Popn -	UrDvlp Cnty	Dnsty	UrDvip Cnty		Popn h Rate
Dept.	Property	ST	County	sq mi	1997	1990	1985	20 mi	sq mi	1997	%	90-97	85-90
Navy	WFNAS - Barin Fld	AL	Baldwin	1658	128820	98920	89401	52828	1.5	77.7	0.09	30.23	_
Navy	WFNAS - Silverhill Fld		Baldwin	1658	128820	98920	89401	207568	1.5	77.7	0.09	30.23	
Navy	WFNAS - Summerdale Fld	ΑĹ	Baldwin	1658	128820	98920	89401	11290	1.5	77.7	0.09	30.23	
	Anniston Army Depot	AL	Calhoun	604	117227	116122	118644	108742	21.3	194.0	3.52	0.95	
	Fort Rucker	AL	Dale	565	49107	49596	48458	86634	8.1	86.9	1.44	-0.99	
	Redstone Arsenal	AL	Madison	828	272584	240144	215234	251150	49.5	329.2	5.98	13.51	11.57
	Maxwell AFB	AL	Montgomery	794	217863	209315	203886	206693	35.5	274.5	4.48	4.08	2.66
	Fort Huachuca	_	Cochise	6262	111688	97840	91192	32983	5.0	17.8	0.08	14.15	
	Ft Huachuca - Dry Lake	_	Cochise	6262	111688	97840	91192	02000	5.0	17.8	0.08	14.15	
	Camp Navaho	_	Coconino	18597	113700	97074	84431	45857	3.9	6.1	0.02	17.13	
	Nvi Obervatory Flagstaff	ΑZ	Coconino	18597	113700	97074	84431	45857	3.9	6.1	0.02	17.13	
	Buckeye NG Target Rng	AZ	Maricopa	9194	2699098	2129389	1828748	32166		293.6			
AF	Luke AFB	+	Maricopa	9194	2699098	2129389	1828748	1252447	212.9	293.6	2.32	26.75	_
AF	Luke AFB – ALF 1	_	Maricopa		2699098	2129389	1828748	252875	212.9	293.6	2.32	26.75	16.44
AF	Davis-Monthan AFB		Pima	<del></del>	778860	668270	602647	419403	66.5	84.4	0.72	26.75	_
Army	Camp Florence	AZ	Pinal	5342	142932	116457	103230	413403	7.7	26.8		16.55	10.89
AF	Rittenhouse Trng Area		Pinal	5342	142932	116457	103230	425912	7.7	26.8	0.15 0.15	22.73 22.73	12.81 12.81
	Barry M. Goldwater Rng	AZ	Yuma	5612	129171	107660	87572	54923	7.0	23.0	0.13	19.98	
	Yuma MC Air Station	AZ	Yuma	5612	129171	107660	87572	54923	7.0	23.0	0.12	19.98	
Army	Yuma Proving Ground	AZ	Yuma	5612	129171	107660	87572	54923	7.0	23.0	0.12	19.98	22.94
	Pine Bluff Arsenal	_	Jefferson	905	82185	85380	88011	57140	18.5	90.9	2.05	-3.74	
_	Camp Robinson		Pulaski		350142	349781	350003	312011	69.6	438.7	8.72	0.10	-2.99 -0.06
	Little Rock AFB		Pulaski		350142	349781	350003	285530	69.6		8.72		
	Fort Chaffee	_	Sebastian		106171	99576	98191	87777	31.3	438.7 197.3	5.82	0.10 6.62	-0.06 1.41
	Camp Parks	_	Alameda	744	1374804	1307043	1197401	1275753		1847.4	16.24	5.18	9.16
	Concord Ocean Terminal	CA.	Contra Costa	+	899107	809223	711446	1048704	113.2	1206.1	15.27	11.11	13.74
	Seal Bch NWS - Concord	CA	Contra Costa		899107	809223	711446	1492794		1206.1	15.27	11.11	13.74
	Chocolate Mnts Rng	_	Imperial	4475	142265	110934	99199	18923	5.4	31.8	0.12	28.24	11.83
	El Centro Bombing Rng	_	Imperial	4475	142265	110934	99199	68940	5.4	31.8	0.12	28.24	11.83
	El Centro NAF	٠.	Imperial	+	142265	110934	99199	68940	5.4	31.8	0.12	28.24	11.83
	China Lake NAWS	_	Kem		624983	549212	474243	27725	44.1	76.3	0.12	13.80	15.81
	Edwards AFB		Kem	<del></del>	624983	549212	474243	166133	44.1	76.3	0.54	13.80	15.81
	Lemoore NAS		Kings		114440	101799	85205	44519	5.4	82.9	0.39	12.42	19.48
	Sierra Army Depot	CA	Lassen	4696	33415	27658	24128	77313	3.9	7.1	0.08	20.81	14.63
_	NI NAS - San Clemente Isl		Los Angeles		9116506		8182906			2215.0	23.34	2.72	8.46
	Fort Hunter-Liggett		Monterey		358360	356952	328102	18583	14.3	107.8	0.43	0.39	8.79
	Presidio of Monterey	_	Monterey		358360	356952		222185		107.8	0.43	0.39	8.79
			Orange			2417557	2171930	4700062		3344.1		10.18	
	March Air Reserve		Riverside		1439210			1301096		197.3	1.32		
	Barstow MC Logistics	_	S Bernardino				1072242		132.9	79.7		20.57 11.93	
	China Lake NWC		S Bernardino				1072242		_				
	Fort Irwin		S Bernardino			1437089			132.9	79.7	0.66	11.93	
	Twentynine Palms		S Bernardino						132.9	79.7	0.66		34.03
_	Camp Pendleton		San Diego				1072242		132.9	79.7	0.66		34.03
			San Diego				2126090			638.2	5.75		18.21
				<del>}                                    </del>			2126090			638.2	5.75		18.21
			San Diego			2513219		2058844		638.2	5.75		18.21
			San Diego				2126090			638.2	5.75		18.21
			San Diego				2126090			638.2	5.75	_	18.21
			San Diego				2126090				5.75		18.21
			San Diego			2513219		1736167		638.2	5.75		18.21
			San Diego			2513219			245.0		5.75		18.21
anny	DDD SanJoaquin-Lathrop	UΑ	San Joaquin	1425	540247	484347	416042	501878	32.8	379.1	2.31	11.54	16.42

			· · · · · · · · · · · · · · · · · · ·	County				City	UrDvlp	·	UrDvlp	Total	Popn
			Resident	Area	l <sub>To</sub>	tal Populat	tion	Popn -	Cnty	Dnsty	Cnty		th Rate
Dept.	Property	ST	County	sq mi	1997	1990	1985	20 mi	sq mi	1997	%	90-97	85-90
Naw	Stockton Communicat'n	CA	San Joaquin	1425	540247	484347	416042	355522	32.8	379.1	2.31	11.54	16.42
	Camp Roberts	CA	S LuisObispo	3349	231416	218129	185248	41721	14.7	69.1	0.44	6.09	17.75
	Vandenburg AFB	CA	Santa Barbara	2746	386524	370412	338569	124967	27.4	140.8	1.00	4.35	
AF	Travis AFB	CA	Solana	805	371237	343472	271634	647623	13.9	460.9	1.73	8.08	
Navy	PM NAWS - San Nicolas	CA	Ventura	1840	721806		602819		45.6	392.2	2.48	7.71	11.17
Navy	Point Mugu NAWS	CA	Ventura	1840	721806	670164	602819	482711	45.6	392.2	2.48	7.71	11.17
Navy	Port Hueneme CBC	CA	Ventura	1840	721806	670164	602819	462321	45.6	392.2	2.48	7.71	11.17
AF	Beale AFB	CA	Yuba	642	60166	58640	53330	92720	7.7	93.8	1.20	2.60	
Army	Buckley ANGB	co	Arapahoe	799	462958	393838	369021	1349383	43.7	579.3	5.46	17.55	
Army	Fort Carson		El Paso		479721	397293		427449	37.9	226.7	1.79	20.75	
	NORAD COC Cntr	_	El Paso	2116	479721	397293		316122	37.9	226.7	1.79	20.75	
AF	Peterson AFB		El Paso	2116	479721	397293	370274	316122	37.9	226.7	1.79	20.75	
		_	El Paso	2116	479721	397293		316122	37.9	226.7	1.79	20.75	
			El Paso	2116	479721	397293	370274	292300	37.9	226.7	1.79	20.75	
-			Las Animas	4730	14490	13752	14416	00040	3.5	3.1	0.07	5.37	-4.61
			Pueblo	2423	132610	123056	123851	98640	20.5 12.0	54.7 352.3	0.85 1.70	7.76 -2.47	-0.64 2.80
	New London Sub Base		New London		248838	255153 603768	248201	92421 2500745		8021.1	87.86		
	Anacostia Nvl Station	_	Washington		529895 529895		634549 634549	2448800		8021.1		-12.24	
			Washington		529895	603768	<del></del>	2429362	58.7	8021.1	87.86	-12.24	
	Nvl Research Lab. DC		Washington Kent	608	122738	111641	102818	27630	9.7	201.9	1.59	9.94	
	Dover AFB Panama City NCSS		Bay	738	146376	127320	113707	46631	20.1	198.4	2.72	14.97	11.97
Navy AF	Tyndall AFB		Bay		146376		113707	46631	20.1	198.4	2.72	14.97	11.97
	Cape Canaveral AFS		Brevard		459537		336935	128397	13.9	451.9	1.37	13.99	
	Patrick AFB	_	Brevard		459537	<del></del>		211281	13.9	451.9	1.37	13.99	
		FL	Clay	652	133649	106793	87109		5.8	205.0	0.89	25.15	22.60
-	Homestead ARB	FL	Dade		2128987		1776908	541929	186.6	1065.0	9.31	9.58	9.34
		_	Duval		729629			709448	120.6	940.7	15.52	7.80	9.18
	Mayport Naval Station		Duval	776	729629	676833	619897	664705	120.6	940.7	15.52	7.80	9.18
Navy	Corry Station Tmg Center	FL	Escambia	664	281529	263314	253383	197387	54.1	423.9	8.14	6.92	
-	Kings OLF	FL	Escambia	664	281529		253383	197387	54.1	423.9	8.14	6.92	3.92
Navy	Pensacola NAS	FL	Escambia	664	281529	<del></del>	253383	197387	54.1	423.9	8.14	6.92	3.92
Navy	WFNAS - Saufley Fld		Escambia		281529	263314	253383	197387	54.1	423.9	8.14	6.92	3.92
AF			Hillsborough		908928	835958	756424	1058504	114.8	855.5	10.80	8.73	
			Marion		235855	196890	159464	12967	8.5	141.1	0.51	19.79	
	Key West NAS		Monroe	864	81169	78241	70522	24832	1.5	93.9	0.18	3.74	
			Okaloosa		167709	144475	129469	195482	11.2	183.5 221.2	1.23	16.08 9.62	
			Polk		446425		363802	10001			0.66		11.96
		Ī	Putnam		70067	65339	58359	10201	5.4	84.9	0.07		21.99
			Santa Rosa		113357	82170	67360	163504	0.8	108.5 108.5	0.07		21.99
			Santa Rosa Santa Rosa		113357 113357	82170 82170	67360 67360	124882		108.5	0.07		21.99
			Santa Rosa		113357	82170	67360	84466	0.8	108.5	0.07		21.99
			Santa Rosa		113357	82170	67360	197387	0.8	108.5	0.07	_	21.99
_			Santa Rosa		113357	82170	67360	100828	0.8	108.5	0.07		21.99
			Camden	628	45164	30795	18530	100020	0.0	72.0	0.00		66.19
			Chattahoochee	250	16589	16798	19408	203993	4.3	66.3	1.70		-13.45
_			Clayton		204725	182403	164026	716697		1407.0			-
		_	Cobb		551314		372905	886607		1563.9			20.89
	MC Logistics - Albany	_	Dougherty		95931	96270	101917	78122		283.1	6.39		
	Fort McPherson		Fulton		725851	649251		878008		1315.8			
	Robins AFB		Houston		103847	89658	82850	150338	12.0	283.0	3.27		
	Fort Stewart		Liberty	522	60107	52841	45577	170393	2.7	115.2	0.52		
•	Moody AFB		Lowndes	516	84721	76266	72573	39806	16.2	164.3	3.15		
	Townsend Rng		McIntosh	450	9905	8613	8402	21603	1.2	22.0	0.26	15.00	2.51
	Fort Gordon		Richmond	337	191762	190429	189698	191069	48.7	568.4	14.48		0.39
			Ada		267283	207518	189811	154103		255.3	1.85	28.80	9.33
			Elmore	3100	24659	21228	21764		2.3	8.0	0.08	16.16	-2.46

Perporty   Sr		I	_	T	l Court	T		<del></del>	T 011	l	T		Γ	
Dept				Resident	County		ital Popula	ation	City			UrDvlp		
AF Min Home Small Arms Ring   ID   Elmore   3100   24658   21228   21784	Dept.	Property	ST											
Army Pershing ILLaunch Sile   D. Owyhee   7715   10120   8417   8445   0.4   1.3   0.01   20.22   0.3   Fig. Spyfor Ceeks Fring Plang   D. Owyhee   7715   10120   8417   8445   0.4   1.3   0.01   20.22   0.3   Fig. Spyfor Ceeks Fring Plang   D. Owyhee   7715   10120   8417   8445   0.4   1.3   0.01   20.22   0.3   Fig. Spyfor Ceeks Fring Plang   D. Owyhee   7715   10120   8417   8445   0.4   1.3   0.01   20.22   0.3   Fig. Spyfor Ceeks Fring Plang   D. Owyhee   7715   10120   8417   8445   0.4   1.3   0.01   20.22   0.3   Fig. Spyfor Ceeks Fring Plang   D. Owyhee   7715   10120   8417   8445   0.04   1.0   0.05   0.05   0.05   0.05   Fig. Spyfor Ceeks Fring Plang   D. Owyhee   7715   0.05   0.	AF	Mtn Home Small Arms Rng	ΙD	Elmore	3100	24659			<del> </del>	<del></del>	8.0	0.08		
AF         Saylor Creek Ting fing         ID         Owyhee         7715         10120         8417         8445         0.4         1.3         0.01         2022         3.0           Army Great Likes Ting Chir         L.         Labe         40         504898         249738         244694         1188721         48.8         58.6         8.6         3.5         7.1           Army Rock Stand Arbenal         L.         Crock Island         440         147916         148620         158381         227566         410         30.5         2.2         0.47         4.6           Army Carry Rindrium         In Carry Rindrium         In Carry Carry Carry         In Carry Carry         8.0         1.0         1.0         1.0         2.0         0.0         3.0         2.0         0.0         3.0         2.0         0.0         3.0         2.0         0.0         3.0         2.0         0.0         3.0         2.0         0.0         3.0         2.0         0.0         3.0         2.0         0.0         3.0         0.0         3.0         0.0         2.0         0.0         2.0         0.0         2.0         0.0         2.0         0.0         2.0         0.0         2.0         0.0	Army	Pershing II Launch Site	ID	Owyhee	7715	10120	8417		1			-		
Mary   Grant Livise Tmg Cntr   L.   Lake	AF	Saylor Creek Trng Rng	QI	Owyhee	7715	10120	8417	8445		0.4				
Army (A Price Support Crit II)			IL	Lake	460	594698	519850	465821	1036057	64.5	1293.6	14.11	14.40	
Army Rock Island Arsenal II. Rock Island 440   1/3916   148920   158931   227966   41.0   39.5   9.32   0.47   9.4   Army Rodina Arb Pa II. S. Clair   685   263868   62295   26155   20155   20150   37.1   9.8   5.50   0.40   0.30   Army Came NEW Chir IN Marin   336   58227   87704   88686   531681   12.2   255.5   4.47   6.30   1.1   Nevy Crane NSW Chir IN Marin   335   30227   36773   38103   86744   3.5   91.1   0.95   9.89   9.32   AF Grissom ARIB IN Marin   335   30227   36873   38103   86744   3.5   91.1   0.95   9.89   9.3   AF Grissom ARIB IN Marin   335   30227   36873   38103   86744   3.5   91.1   0.95   9.89   9.3   AF Grissom ARIB IN Marin   335   30227   36873   38103   86744   3.5   91.1   0.95   9.89   9.3   Army Grap Dodge   A Polk   0.59   9.5613   0.528   0.59   0.90   0.98   0.00   0.98   0.00   Army Camp Dodge   A Polk   0.59   59613   0.258   0.00   0.98   0.00   0.98   0.00   0.00   Army Camp Dodge   A Polk   0.59   59613   0.00   0	Army	CM Price Support Cntr	IL		726	258899	249739	246494	1188721	46.8	356.8		3.67	1.32
Army Camp Altebury N Bartholomew 399 6888 68894 68398 115833 37, 1725 24, 37, 752 0.6 Army Indiana AAP N Clare NSW Chrir N Marin 385 58227 87704 88868 581881 162 255.5 4.47 6.30 1.11 Navy Crane NSW Chrir N Marin 381 1059 10365 10798 68288 0.3 31.2 0.23 1.87 3.9 AF Gissom ARB N Marin 385 58227 38873 38103 86744 3.5 91.1 0.95 9.89 3.2 AF Gissom ARB N Marin 385 58227 38873 38103 86744 3.5 91.1 0.95 9.89 3.2 AF Gissom ARP N Vermillon 288 18973 6758 17565 2.2 3 65.9 0.90 1.28 4.00 Army Newport AAP N Vermillon 288 18973 6758 17565 2.2 3 65.9 0.90 1.28 4.00 Army Camp Dodge IA Polk S 595 365132 38948 308349 86871 60.7 598.6 10.2 8.46 8.4 Army S Gaeay/Riley K S Geary/Riley K S Geary/Riley K S Geary/Riley K S Johnson 473 418883 357233 303129 517244 52.2 85.8 11.05 17.20 17.8 Army S Camp Mark M S S Labette 651 2090 28814 24915 11924 5.0 35.4 0.77 4.22 4.22 Army Camp Mark M S S Labette 651 2090 28814 24915 11924 5.0 35.4 0.77 4.22 4.22 Army Grot Camp M S S Saline 746 51488 49987 7.0492 105333 6.5 93.0 1.14 4.30 0.5 Army Fort Campbell K Y Christian 708 15488 49987 7.0492 105333 6.5 93.0 1.14 4.30 0.5 Army Fort Campbell K Y Christian 708 5945 89444 87625 491524 8.5 4153 0.14 5.0 0.5 6.5 Army Fort Campbell K Y Christian 708 5945 89444 87625 491524 8.5 143.0 1.34 1.50 0.20 Army Fort Campbell K Y Christian 708 5945 89444 87625 491524 8.5 143.0 1.34 1.50 0.20 Army Fort Campbell K Y Christian 708 5945 89444 87625 491524 8.5 143.0 1.34 1.50 0.20 1.34 Army Fort Notox X Y Hardin 6.35 9763 89444 87625 491524 8.5 143.0 1.34 1.50 0.20 1.34 Army Fort Notox X Y Hardin 6.35 9763 89444 87625 491524 8.5 143.0 1.34 1.50 0.20 1.34 Army Fort Notox X Y Hardin 6.35 9763 89444 89503 8954 8.1 1.14 18.0 0.7 1.35 0.47 AF Bantastala APP L A Becsierie 714 26007 8958 8958 8958 8958 1.31 1.40 8.0 1.34 1.50 0.20 1.34 1.30 0.20 1.34 1.30 0.20 1.35 0.35 1.35 0.20 1.35 0			IL		440	147916	148620	158931	227366	41.0	336.5	9.32	-0.47	-6.49
Army Indiana AAP IN Marin 338 10559 10365 10788 85288 0.8 312 0.20 1.75   Army Now Came NSW Chrir IN Martin 338 10559 10365 10786 85288 0.8 312 0.20 1.87   Army Newport AAP IN Martin 385 33227 36877 3 39103 86744 3.5 91.1 0.95 9.88 9.32   Army Newport AAP IN Vermillon 258 18973 17655 17656 17656 2.3 65.9 0.90 1.28 0.00   Army Iowa AAP IA Des Molnes 422 142108 12656 17658 17655 17655 17656 1765			$\rightarrow$		665	263886	262751	265155	201590	37.1	396.8	5.60	0.43	-0.91
Martin			-				63834			9.7	172.5	2.43	7.92	0.69
AF Grissom ARB IN Mami 395 33227 68873 38103 66744 3.5 91.1 0.58 9.38 -3.2 Army Newport AAP IN Vermillor 358 18973 17558 17565 2.3 655 0.90 1.28 Army Rewport AAP IN Vermillor 358 18973 17558 17565 2.3 655 0.90 1.28 Army Grot Riber AAP IN Vermillor 359 18973 17558 17565 2.3 655 0.90 1.28 0.29 Army Grot Riber AAP IN Des Moines 422 42108 24216 43850 38826 6.2 9.98 1.1 1.42 1-12.8 0.27 Army Grot Riber AAP IN Section 4.2 42108 24108 24108 31884 58316 5.8 1.1 1.42 1-17.33 1.45 Army Sunflower AAP IN Section 4.2 410 2410 2411 2411 30449 31884 58316 5.8 10.1 1.42 1.73 1.45 Army Sunflower AAP IN Section 4.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2			-				87704	88686	531681	16.2	255.5	4.47	6.30	-1.11
Army Newport AAP IN Vermillion 258 18973 16758 17655 2.3 65.5 0.9 1.28 -5.0 Army Jowa AAP A Des Moines 422 42108 4256 43850 38826 6.2 99.8 1.47 1.28 -5.7 Army Camp Dodge AA Pok S95 386132 328348 309.49 268971 60.7 588.6 11.0 1.42 -17.33 -1.5 Army Grap Dodge AA Pok S95 386132 328348 309.49 268971 60.7 588.6 11.0 1.42 -17.33 -1.5 Army Grap Dodge AA Pok S95 386132 328348 309.49 268971 60.7 588.6 11.0 1.42 -17.33 -1.5 Army Grap Mark AAP KS Johnson 473 416863 375233 305129 517244 52.2 885.8 11.05 17.20 17.8 Army Kansas AAP KS Johnson 473 416863 375233 305129 517244 52.2 885.8 11.05 17.20 17.8 Army Kansas AAP KS Johnson 473 416863 375233 305129 517244 52.2 885.8 11.05 17.20 17.8 Army Kansas AAP KS Johnson 473 416863 37534 49915 11924 5.0 3.5.4 Arg. 22.2 5.2 Army Fort Campbell KY Christian 708 7308 88907 70492 105303 6.5 103.0 1.0 1.1 4.30 5.5 Army Fort Campbell KY Christian 708 7308 88907 70492 105303 6.5 103.6 0.92 6.5 1.2 Army Fort Campbell KY Christian 708 7308 88907 70492 105303 6.5 103.6 0.92 6.5 1.2 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.5 13.0 1.0 1.0 2.0 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.5 13.0 1.0 1.0 2.0 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.5 13.0 1.0 1.0 2.0 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.5 13.0 1.0 1.0 2.0 2.0 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.0 0. 23.4 0.7 13.50 4.7 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.0 0. 23.4 0.7 13.50 4.7 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.0 0. 23.4 0.7 13.50 4.7 Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.0 0. 23.4 0.7 13.50 4.7 Army Fort Dok A Danas Army Fort Nox XY Hardin 635 90783 89444 87825 491624 8.0 0. 23.4 0.7 13.5 0. 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1			+					+	85288	0.8	31.2	0.23	1.87	-3.92
Army   Gram   AP			_	<del> </del>					86744	3.5	91.1	0.95	-9.89	-3.23
Army Gramp Dodge			_			<del></del>				2.3	65.9	0.90	1.28	-5.08
Army Ront Riley KS Geary/Riley 412 25171 30449 31884 58316 5.8 6.1.1 1.42 -17.33 -4.74 Army Sunflower AAP KS Johnson 473 41888 357233 303129 517244 52.2 885.8 11.05 17.20 17.8 Army Kanasa AAP KS Johnson 473 41888 357233 303129 517244 52.2 885.8 11.05 17.20 17.8 Army Kanasa AAP KS Johnson 474 51488 49367 48918 45.0 35.4 15.2 9.2 71 8.28 7.6 Army Fort Leavenworth KS Leavenworth 458 70036 64895 60109 198918 12.4 152.9 2.71 8.28 7.6 AF Smoky Hill ANG Ring KS Saline 746 51488 49367 48918 42903 81.8 69.0 1.14 4.30 -0.5 AF McComell AFB KS Sedgwick 1018 493907 404610 383469 316710 99.7 4315 60.8 8.0 0.0 1.14 4.30 -0.5 Army Fort Campbell KY Christian 708 73308 68807 70492 105303 6.6 103.6 0.92 6.55 -2.3 Army Fort Knox KY Hardin 635 9078 38444 87625 491624 5.0 13.4 1.00 1.2 4.7 Army Blue Grass Army Depot KY Madison 437 85465 57678 50603 3894.4 31 149.8 1.3 4 1.00 2.0 Army Blue Grass Army Depot KY Madison 437 85465 57678 50603 3894.4 31 149.8 1.3 4 1.00 2.0 Army Fort Polk LA Vermon 1357 51829 62055 62256 84338 0.0 23.4 0.00 23.4 0.00 23.4 Army Fort Polk LA Vermon 1357 51829 62055 62256 84338 0.0 23.4 0.00 23.4 0.00 3.4 Army Louisiana AAP LA Wesher 618 42626 1990 44469 264907 6.6 69.3 1.0 13.0 3.0 7 1.21 3.9 Army Brunswich NAS ME Cumberland 969 251388 243952 293995 78749 15.5 2959.3 1.0 6.0 3.1 7 5.9 Army Brunswich NAS ME Cumberland 969 251388 243952 293995 78749 15.5 2950.8 1.0 3.0 3.7 5.9 Army Brunswich NAS ME Cumberland 969 251388 243952 293995 78749 15.5 2950.8 1.0 3.0 3.7 5.9 Army Brunswich NAS ME Cumberland 404 470224 428804 396028 419270 49.1 1068.0 11.14 9.66 8.2 Navy USN Academy MD Anne Annuel 440 470224 428804 396028 119738 47.1 1068.0 11.14 9.66 8.2 Navy USN Academy MD Anne Annuel 440 470224 428804 396028 119738 47.1 1068.0 11.14 9.66 8.2 Navy USN Academy MD Anne Annuel 440 470244 428804 396028 119738 47.1 1068.0 11.14 9.66 8.2 Navy USN Academy MD Anne Annuel 440 470244 428804 396028 119738 47.1 1068.0 11.14 9.66 8.2 Navy USN Academy MD Anne Annuel 440 470244 428804 396028 119735 41.0 10.0 12.1 1.7 1.0 1.7 1.2 1			_						38826	6.2			-1.26	-2.75
Army Romes AAP KS Johnson 473 418683 357233 303129 517244 522 883.8 11.05 17.20 17.20 Army Kansas AAP KS Johnson 651 23090 23814 24915 11924 52.2 883.8 11.05 17.20 17.2	_		_		+		+		266871	60.7	598.6	10.22	8.46	6.49
Army Kansas AAP KS Labettle 651 23090 23614 24915 11924 5.0 35.4 0.77 2.22 5.2 Army Fort Leavenworth KS Leavenworth 458 77036 64695 60109 198918 12.4 152.9 2.71 8.26 7.6 Army Fort Leavenworth KS Leavenworth 458 77036 64695 60109 198918 12.4 152.9 2.71 8.26 7.6 Army Fort Campbell KS Saline 746 51498 49957 49618 42303 8.5 690 1.14 4.30 0.5 AF McConnell AFB KS Sedice 746 51498 4997 49616 24303 8.5 690 1.14 4.30 0.5 Army Fort Campbell KY Christian 708 73308 68807 70492 105303 6.6 103.6 0.92 6.54 0.2 Army Fort Knox KY Hardin 635 90783 89444 87625 416162 8.5 1436 0.92 6.54 0.2 Army Blue Grass Army Popt Knox KY Hardin 635 90783 89444 87625 416162 8.5 1436 0.92 6.54 0.2 Army Blue Grass Army Popt Knox KY Hardin 635 90783 89444 87625 416162 8.5 1436 0.92 6.54 0.3 Army Rev Creans NAS A. A. Plaquemines 1114 26070 2514 26625 94458 0.3 1.1 49.8 0.07 13.50 4.7 Army Fort Polk LA Vemon 1357 51829 82065 62256 3.1 38.2 0.22 16.49 0.3 Army Louisiana AAP LA Webster 615 42626 41901 44469 264907 6.6 160.4 0.05 2.18 4.1 Army Fort Polk LA Vemon 1357 51829 82065 62256 93.1 38.2 0.23 16.49 0.3 Army Fort Meade MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1080.0 11.14 9.86 8.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 870234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 870234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 870234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NRC MD Anne Arundel 440 870234 428804 396028 2912740 49.1 1080.0 11.14 9.66 8.2 Navy Solomor's NR			-		-			31884	58316	5.8	61.1	1.42	-17.33	-4.50
Army Fort Leavenworth KS Leavenworth 455 70036 64895 60109 198918 124 1529 2.71 8.26 7.6 AF Smoky Hill ANG Ring KS Saline 746 51498 49367 49818 42303 8.5 69.0 1.14 4.30 -0.5 AF McCommell AFB KS Sexpirick 1018 499007 -0.04610 383469 318710 99.7 431.5 9.80 8.50 65.5 Army Fort Campbell KY Christian 708 73308 68807 70492 105303 6.6 103.6 0.92 6.54 2.3 Army Fort Knox KY Hardin 635 90783 89444 87625 491624 8.5 143.0 1.34 1.50 2.0 Army Blue Grass Army Depot KY Madison 437 65465 57678 50683 36954 3.1 149.6 1.7 13.50 4.77 AF Barksdale AFB LA Bossier 674 92953 83565 8351 264907 6.6 106.4 0.75 8.27 2.8 Navy New Crieans NAS LA Pleaquemines 1114 26070 25514 26625 844558 0.0 23.4 0.00 2.18 4.1 Army Fort Diolk LA Vermon 1357 51829 26056 26256 62256 3.1 3.0 3.0 4.0 0.0 2.18 4.1 Army Fort Diolk LA Vermon 1357 51829 26056 26256 62256 3.1 3.0 43.0 0.07 13.7 5.7 Navy Brunswick NAS ME Cumberland 969 251388 243652 299985 76749 15.5 299.5 1.60 3.17 5.9 Army Louisiana AAP LA Webster 615 42626 41901 44469 264907 6.6 69.3 1.00 1.17 1.73 5.7 Navy Brunswick NAS ME Washington 2997 36852 34233 34075 1.9 13 0.007 1.21 3.9 Army Louisiana SHC Mahamed MD Arme Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 8.2 Navy USN Naval Radio Station ME Washington 2997 36852 34233 34075 1.9 13 0.007 1.21 3.9 Army Solomon's NRC MD Cawert 238 68327 15176 40101 0.0 29175.2 1.17 21.01 1.30 Navy Blood Isl Ring-Little CF Fid MD Diorchester 534 29847 30243 28985 667024 5.2 22.4 1.19 13.19 2.03 Navy Blood Isl Ring-Little CF Fid MD Diorchester 534 29847 30243 28985 667024 5.2 22.4 1.19 13.19 2.03 AFF Andrews AFB MD Frence Georges 499 770798 73172 68347 211973 1240 1544.3 24.96 5.3 9.5 1.00 AFF Andrews AFB MA Hampden 441 121233 183759 154338 1133322 14.7 481.4 3.34 15.55 19.00 AFF Andrews AFB MA Hampden 642 440470 6824 181068 11.30 13.30 2.00 11.10 1.00 2.00 13.0 0.01 11.10 1.00 2.00 13.0 0.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30 4.00 13.1 1.30			$\overline{}$		<del></del>				517244	52.2	885.8	11.05	17.20	17.85
AF Smoky Hill ANG Ring KS Saline 746 51488 49367 49618 42303 8.5 69.0 1.14 4.30 4.5 AF McConnell AFB KS Bodywick 1018 439007 404610 383468 318710 99.7 431.5 9.0 8.50 6.54 2.3 Army Ford Campbell KY Christian 708 73308 68807 70492 105303 6.6 10530 6.0 13.6 0.02 6.54 2.3 Army Ford Knox KY Hardin 635 90783 89444 87625 491624 8.5 143.0 1.34 1.50 2.0 Army Bue Grass Army Depot KY Madison 437 65465 57678 55063 39954 3.1 149.8 0.71 13.50 4.7 Army Bue Grass Army Depot LA Bossier 874 592953 88565 89351 264907 6.6 169.4 0.75 8.27 13.50 4.7 Army Ford Polk A Vemon 1357 51629 62065 62256 33.1 38.2 0.23 16.48 0.3 Army Louisian AAP LA Wemon 1357 51629 62065 62256 33.1 38.2 0.23 16.49 0.3 Army Louisian AAP LA Wemon 1357 51629 62065 62256 33.1 38.2 0.23 16.49 0.3 Army Louisian AAP LA Weshington 2687 35852 34936 249807 6.6 169.3 1.07 1.73 5.9 Navy Burnswick NAS ME Cumberland 969 251388 243652 299895 70749 15.5 295.5 1.60 3.17 5.9 Navy Burnswick NAS ME Cumberland 969 251388 243652 299895 70749 15.5 295.5 1.60 3.17 5.9 Navy Burnswick NAS ME Washington 2687 35852 35423 34075 1.1 9 13.3 0.01 1.1 1.3 3.9 Army Louisian AAP LA Weshington 2687 35852 35423 34075 1.1 9 13.3 0.0 1.1 1.1 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 40589 49.1 1068.0 11.14 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy More Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy More Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 6.2 Navy More Arundel 440 470234 428804 396028 2912740 49.1 1			-		<del></del>					<del></del>		0.77	-2.22	-5.22
AF         McConnell AFB         KS         Sedgwick         1018         439007         404610         383469         318710         99.7         431.5         9.80         8.50         5.5           Army Fort Kompbell         KY         Christian         708         73908         68807         70492         105303         6.6         103.6         0.92         6.54         22.3           Army Fort Knox         KY         Hardin         655         590783         98444         87625         48180         0.0         23.4         0.00         2.5         4.7           Army Bus Corticans NAS         LA         Bossier         874         92953         85566         89351         264907         6.6         106.4         0.75         22.7         22.8           Army Fort Polk         LA         Vernon         1357         51829         62065         62256         944358         0.0         3.3         38.2         0.23         16.4         0.3           Army Fort Meade         MD         Americand         605         25388         234582         23985         87499         15.5         259.5         1.8         0.3         0.07         1.73         5.7           Navy			_		<del></del>		·					2.71	8.26	7.63
Army         Fort Campbell         KY         Christian         708         73308         68807         70492         105303         6.6         103.6         9.92         6.54         2.3           Army         Fort Knox         KY         Hardin         635         90783         89444         87625         491624         8.5         143.0         1.34         1.50         2.7           AFMY         Bull Grass Army         LA         Bossier         874         92953         85585         88351         246907         6.6         106.4         0.75         8.27         2.8           Navy         New Orleans NAS         LA         Plaquemines         1114         26070         25514         26625         824358         0.0         23.4         0.00         2.18         4.1           Army         Louisiana AAP         LA         Webster         615         42626         41901         44468         264907         6.6         60.8         3.1         7.7         7.7         7.7         7.7         8.7           Navy         Bunswick NAS         ME         Cumberland         999         251368         242656         22256         3.1         3.2         0.07         1.			_	· · · · · · · · · · · · · · · · · · ·					42303	8.5	69.0	1.14	4.30	-0.51
Army, Fort Knox			$\overline{}$						<del></del>	99.7	431.5	9.80	8.50	5.51
Army Blue Grass Army Depot									105303	6.6	103.6	0.92	6.54	-2.39
AF Barksdale AFB LA Bossier 874 92953 85856 88351 264907 6.6 106.4 0.75 8.27 2.8 Navy New Orleans NAS LA Plaquemines 1114 26070 25514 26625 844358 0.0 23.4 0.00 2.18 4.1 Army Fort Polk  LA Vemon 1357 51829 62065 62256 62256 6.3 1.3 38.2 0.22 -16.49 -0.3 Army Louisiana AAP  LA Webster 615 42626 41901 44469 264907 6.6 6.9 9.3 1.07 1.73 5.7 Navy Brunswick NAS ME Cumberland 999 251388 243652 229995 78749 15.5 259.5 1.60 3.17 5.9 Navy Brunswick NAS ME Cumberland 999 251388 243652 229995 78749 15.5 259.5 1.60 3.17 5.9 Navy Brunswick NAS ME Cumberland 440 470234 428804 396028 291274 49.1 1068.0 11.14 9.66 8.22 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 440589 49.1 1068.0 11.14 9.66 8.22 Navy USN Academy MD Anne Arundel 440 470234 428804 396028 440589 49.1 1068.0 11.14 9.66 8.22 Navy Sobmon's NRC MD Calvert 238 69327 51976 40101 0.0 291.7 0.00 33.38 29.6 Navy Blood Isl Rng-little CF Irld MD Dorchester 534 29847 30243 29855 1.9 5.9 5.9 0.38 1.31 1.33 Army Fort Defrick MD Prederick 665 183099 151309 128502 116738 7.7 275.2 1.17 21.01 17.72 Army Aberdeen Proving Ground MD Harford 441 212339 183759 154338 1133322 14.7 481.4 3.34 15.55 19.0 Army PR NAS Webster Field MD St Marys 372 85304 76427 64618 1.2 229.3 0.31 11.62 18.25 AF Edwards/MIMR MA Barnstable 431 204978 187169 166578 124400 15.8 475.8 3.69 9.51 12.34 AF Harscom AFB MA Micclesex 850 1418060 1398249 1397037 2252210 200.2 1667.8 23.56 1.42 0.05 Army Natkó Soldier Center MA Micclesex 850 1418060 1398249 1397037 2522510 200.2 1667.8 23.56 1.42 0.05 Army Natkó Soldier Center MA Micclesex 850 1418060 1398249 1397037 2522510 200.2 1667.8 23.56 1.42 0.05 Army Natkó Soldier Center MA Micclesex 850 1418060 1398249 1397037 2522510 200.2 1667.8 23.56 1.42 0.05 Army Natkó Soldier Center MA Micclesex 850 1418060 1398249 1397037 2522510 200.2 1667.8 23.56 1.42 0.05 Army Natkó Soldier Center MA Micclesex 850 1418060 1398249 1397037 2522510 200.2 1667.8 23.56 1.42 0.05 Army Natkó Soldier Center MA Micclesex 850 1418060 1398249 1397037 2522510 200.2 1667.8 23.56 1.			_							8.5	143.0	1.34	1.50	2.08
Navy   New Orleans NAS			+				<del></del>		36954	3.1		0.71	13.50	4.75
Army         Fort Polik         LA         Vernon         1357         51829         62065         62256         3.1         38.2         0.23         -16.48         -0.3           Army Louisiana AAP         LA         Webster         615         42626         41901         44469         264907         6.6         69.3         1.07         1.73         5.7           Navy         US Naval Radio Station         ME Washington         2697         35852         35423         34075         1.9         13.3         0.07         1.21         3.9           Army         Fort Meade         MD         Anne Arundel         440         470234         428804         396028         2912740         49.1         1068.0         11.14         9.66         8.21           Navy         USN Academy         MD         Anne Arundel         440         470234         428804         396028         2912740         49.1         1068.0         11.14         9.66         8.21           Navy         Solomon's NRC         MD         Charlet         435         115233         101805         667024         5.4         252.4         1.19         13.3         13.3         13.3         13.3         13.3         13.3 <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-2.82</td>			+				+							-2.82
Army Louisiana AAP LA Webster 615 42626 41901 44469 264907 6.6 69.3 1.07 1.73 5.7 Nary Brunswick NAS ME Cumberland 969 251388 243652 229985 78749 15.5 259.5 1.60 3.17 5.9 Nary Brunswick NAS ME Cumberland 969 251388 243652 229985 78749 15.5 259.5 1.60 3.17 5.9 Nary US Naval Radio Station ME Washington 2697 35852 35423 34075 1.9 13.3 0.07 1.21 3.9 Army Fort Meade MD Anne Arundel 440 470234 428804 396028 2912740 49.1 1068.0 11.14 9.66 8.21 Nary USN Academy MD Anne Arundel 440 470234 428804 396028 440889 49.1 1068.0 11.14 9.66 8.21 Nary Solomon's NRC MD Calvert 238 69327 51976 40101 6.00 291.7 0.00 33.38 29.6 Nary Naval SWC- Indian Hd MD Charles 457 115233 101805 84585 667024 5.4 252.4 1.19 13.19 20.34 Nary Blood Isl Rng-Little Cr Fid MD Dorchester 534 29847 30243 28855 67024 5.4 252.4 1.19 13.19 20.34 Nary Blood Isl Rng-Little Cr Fid MD Dorchester 534 29847 30243 28855 67024 5.4 252.4 1.19 13.19 20.34 Nary Blood Isl Rng-Little Cr Fid MD Prince Georges 499 770786 731372 683487 2119735 124.0 1544.3 24.96 5.39 7.01 Nary Patuxent River NAS MD St Marys 372 85304 76427 64618 1.2 229.3 0.31 11.62 18.25 AF Andrews AFB MD Prince Georges 499 770786 731372 683487 2119735 124.0 1544.3 24.96 5.39 7.01 Nary Patuxent River NAS MB Bamistable 431 204978 187169 166578 124400 15.8 475.8 3.69 9.51 12.36 AF Hanscom AFB MA Middlesex 850 1418060 1398249 1397037 1252310 200.2 1667.8 23.56 1.42 0.05 Army Oevens Fies. Tng Area MA Middlesex 850 1418060 1398249 1397037 1347123 200.2 1667.8 23.56 1.42 0.05 Army Camp Grayling MI Crawford 566 139313 12320 10628 15.5 24.0 10.0 13.8 0.00 0.88 0.43 Navy Meridian NAS - Williams Fid MS Harrison 592 176257 16529 168762 133232 12.4 297.6 2.09 6.67 2.05 Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0 13.3 0.00 0.88 0.43 Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0 1.3 3.0 0.0 0.08 0.43 Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0 1.3 3.0 0.0 0.0 13.8 0.00 0.08 0.43 Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0 0			+					<del> </del>	844358					-4.17
Navy   Brunswick NAS   ME   Cumberland   969   251388   243652   229885   78749   15.5   259.5   1.60   3.17   5.9			_		7								-16.49	-0.31
Navy   US Naval Radio Station   ME   Washington   2897   35852   33423   34075   1.9   13.3   0.07   1.2   3.9			_										-	-5.77
Army         Fort Meade         MD         Anne Arundel         440         470234         428804         396028         2912740         49.1         1068.0         11.14         9.66         8.2           Navy         USN Academy         MD         Annormolel         440         470234         428804         396028         440589         49.1         1068.0         11.14         9.66         8.2           Navy         Solomon's NRC         MD         Calvert         238         69327         51976         40101         0.0         291.7         0.00         33.39         29.6           Navy         Slood Isl Ring-Little Cr Fld         MD         Corbeits         457         115233         101805         84585         667024         5.4         252.4         1.19         13.19         20.30           Army         Follotick         MD         Frince Georick         665         183099         151309         128502         116738         7.7         275.2         1.17         21.01         177.3           Army         Aberdeen Proving Ground         MD         Prince Georges         499         770786         731372         683487         2117735         124.0         154.3         24.96         <	1		_						78749					5.94
Navy   USN Academy   MD   Anne Arundel   440   470234   428804   396028   440589   49.1   10680   11.14   9.66   8.25			_					+	2010710					3.96
Navy   Solomon's NRIC   MD   Calvert   238   69327   51976   40101   0.0   291.7   0.00   33.38   29.6			-				<del></del>				_			
Navy         Naval SWC- Indian Hd         MD Charles         457         115233         101805         84585         667024         5.4         252.4         1.19         13.19         20.34           Navy         Blood Isl Rng-Little Cr Fld         MD Dorchester         534         29847         30243         29855         1.9         55.9         0.36         -1.31         1.33           Army         Fort Detrick         MD Prededrick         665         183099         151309         128502         116738         7.7         275.2         1.17         21.01         17.75           Army         Aberdeen Proving Ground         MD Harlord         441         212339         183759         154338         1133322         14.7         481.4         3.34         15.55         19.00           AF         Andrews AFB         MD Prince Georges         499         770786         731372         683487         2119735         124.0         1544.3         24.96         5.39         7.0           Navy         Patusent River NAS         MD Ist Marys         372         85304         76427         64618         1.2         229.3         0.31         11.62         18.25           Navy         PR NAS - Webster Field			+				<del></del>		440589					8.28
Navy   Blood Ist Rng-Little Cr Fld   MD   Dorchester   534   29847   30243   29855   1.9   55.9   0.36   -1.91   1.31			-					<del></del>	007004					
Army         Fort Detrick         MD         Frederick         665         183099         151309         128502         116738         7.7         275.2         1.17         21.01         17.77           Army         Aberdeen Proving Ground         MD         Harlord         441         212339         183759         154338         1133322         14.7         481.4         3.34         15.55         19.06           AF         Andrews AFB         MD         Prince Georges         499         770786         731372         683487         2119735         124.0         1544.3         24.96         5.39         7.01           Navy         Patusent River NAS         MD         St Marys         372         85304         76427         64618         1.2         229.3         0.31         11.62         18.26           Navy         PR NAS - Webster Field         MD         St Marys         372         85304         76427         64618         1.2         229.3         0.31         11.62         18.26           AF         Edwards/MMR         MA         Barnystable         431         204978         187169         166578         124400         15.8         475.8         3.69         9.51         12.36 <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td><del></del></td> <td>66/024</td> <td></td> <td></td> <td></td> <td></td> <td></td>			_					<del></del>	66/024					
Army Aberdeen Proving Ground MD Harford 441 212339 183759 154338 1133322 14.7 481.4 3.34 15.55 19.06 AF Andrews AFB MD Prince Georges 499 770786 731372 683487 2119735 124.0 1544.3 24.96 5.39 7.01 Navy Patuxent River NAS MD St Marys 372 85304 76427 64618 1.2 229.3 0.31 11.62 18.25 Navy PR NAS - Webster Field MD St Marys 372 85304 76427 64618 1.2 229.3 0.31 11.62 18.25 Oits ARNG/Camp Edwards AF Edwards/MMR MA Barnstable 431 204978 187169 166578 124400 15.8 475.8 3.69 9.51 12.36 AF Westover AFB MA Hampden 642 440472 456411 441973 398166 82.3 686.0 12.86 -3.49 3.27 AF Hanscom AFB MA Middlesex 850 1418060 1398249 1397037 2252310 200.2 1667.8 23.56 1.42 0.05 Army Natick Soldier Center MA Middlesex 850 1418060 1398249 1397037 1347123 200.2 1667.8 23.56 1.42 0.05 Army Devens Res. Trng Area MA Worcester 1572 725377 710420 662239 635085 64.1 461.5 4.10 2.11 7.22 Army Camp Grayling MI Crawford 566 13913 12320 10628 1.5 24.6 0.28 12.93 15.92 AF Selfridge ANGB MI Macomb 481 783240 718490 693630 2089704 129.1 1628.4 26.94 9.01 3.58 Navy Construction Batallion Cntr MS Harrison 592 176257 165229 168762 133232 12.4 297.6 2.09 6.67 2.05 Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.00 13.8 0.00 0.88 0.43 Navy Meridian NAS - Williams Fid MS Lauderdale 705 76824 75511 78371 41036 5.4 109.0 0.77 1.74 -3.65 Navy Meridian NAS MS Lauderdale 705 76824 75511 78371 41036 5.4 109.0 0.77 1.74 -3.65 Navy Mittipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41 Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41 AF Whiteman AFB MO Johnson 825 47192 42634 38833 35044 3.1 57.2 2.38 10.69 9.79 Army Fort Leonard Wood MO Pulaski 543 38175 41763 40660 8.9 70.3 1.64 8.59 2.71 AF Malmstrom AFB MT Cascade 2726 79039 77722 79591 55097 18.5 29.0 0.68 1.69 -2.35 Army Fort Williams Harrison MT Lewis & Clark 3495 53319 47556 46912 24569 5.4 15.3 0.16 12.12 1.37			_						110700		-			
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Navy   Patuxent River NAS   MD   St Marys   372   85304   76427   64618   1.2   229.3   0.31   11.62   18.25			_											
Navy         PR NAS - Webster Field         MD         St Marys         372         85304         76427         64618         1.2         229.3         0.31         11.62         18.26           AF         Otis ARNG/Camp Edwards Edwards/MMR         MA         Barnstable         431         204978         187169         166578         124400         15.8         475.8         3.69         9.51         12.36           AF         Westover AFB         MA         Hampden         642         440472         456411         441973         398166         82.3         686.0         12.86         -3.49         3.27           AF         Hanscom AFB         MA         Middlesex         850         1418060         1398249         1397037         2252310         200.2         1667.8         23.56         1.42         0.09           Army         Devens Res. Trng Area         MA         Worcester         1572         725377         710420         662239         635085         64.1         461.5         4.10         2.11         722           Army         Camp Grayling         MI         Crawford         566         13913         12320         10628         1.5         24.6         0.28         12.93			MD	St Manys					2119/35					
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AF Edwards/MMR MA Bamstable 431 204978 187169 166578 124400 15.8 475.8 3.69 9.51 12.36  AF Westover AFB MA Hampden 642 440472 456411 441973 398166 82.3 686.0 12.86 -3.49 3.27  AF Hanscom AFB MA Middlesex 850 1418060 1398249 1397037 2252310 200.2 1667.8 23.56 1.42 0.05  Army Natick Soldier Center MA Middlesex 850 1418060 1398249 1397037 1347123 200.2 1667.8 23.56 1.42 0.05  Army Devens Res. Tmg Area MA Worcester 1572 725377 710420 662239 635085 64.1 461.5 4.10 2.11 7.28  Army Camp Grayling MI Crawford 566 13913 12320 10628 1.5 24.6 0.28 12.93 15.92  AF Selfridge ANGB MI Macomb 481 783240 718490 693630 2089704 129.1 1628.4 26.94 9.01 3.58  Navy Construction Batallion Cntr MS Harrison 592 176257 165229 168762 133232 12.4 297.6 2.09 6.67 -2.09  Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0.0 13.8 0.00 0.88 -0.43  Navy Meridian NAS MS Lauderdale 705 76824 75511 78371 41036 5.4 109.0 0.77 1.74 -3.65  Navy Meridian NAS MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Army Lake City AAP MO Jackson 622 653745 633453 633482 746642 140.3 1050.5 22.53 3.20 0.00  AF Whiteman AFB MC Johnson 825 47192 42634 38833 35044 3.1 57.2 0.38 10.69 9.79  Army Fort Leonard Wood MO Pulaski 543 38175 41763 40660 8.9 70.3 1.64 -8.59 2.71  AF Malmstrom AFB MT Cascade 2726 79039 77722 79591 55097 18.5 29.0 0.68 1.69 -2.35  AF Malmstrom AFB MT Cascade 2726 79039 77722 79591 55097 18.5 29.0 0.68 1.69 -2.35					5,2	JJJJU-1	1.042/	0.010	<del>  </del>	1.4	223.3	0.31	11.02	15.28
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AF Hanscom AFB MA Middlesex 850 1418060 1398249 1397037 2252310 200.2 1667.8 23.56 1.42 0.05   Army Natick Soldier Center MA Middlesex 850 1418060 1398249 1397037 1347123 200.2 1667.8 23.56 1.42 0.05   Army Devens Res. Trng Area MA Worcester 1572 725377 710420 662239 635085 64.1 461.5 4.10 2.11 7.28   Army Camp Grayling MI Crawford 566 13913 12320 10628 1.5 24.6 0.28 12.93 15.92   AF Selfridge ANGB MI Macomb 481 783240 718490 693630 2089704 129.1 1628.4 26.94 9.01 3.58   Navy Construction Batallion Cntr MS Harrison 592 176257 165229 168762 133232 12.4 297.6 2.09 6.67 -2.09   Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0 13.8 0.00 0.88 -0.43   Navy Meridian NAS MS Lauderdale 705 76824 75511 78371 41036 5.4 109.0 0.77 1.74 -3.65   Navy Alpha NAAS MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41   Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41   Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41   Army Lake City AAP MO Jackson 622 653745 633453 633482 746642 140.3 1050.5 22.53 3.20 0.00   AF Whiteman AFB MO Johnson 825 47192 42634 38833 35044 3.1 57.2 0.33 10.69 9.79   Army Fort Leonard Wood MO Pulaski 543 38175 41763 40660 8.9 70.3 1.64 -8.59 2.71   AF Malmstrom AFB MT Cascade 2726 79039 77722 79591 55097 18.5 29.0 0.68 1.69 -2.35   Army Fort William H Harrison MT Lewis & Clark 3495 53319 47556 46912 24569 5.4 15.3 0.16 12.12 1.37   AF Malmstrom AFB MT Cascade 2726 79039 77722 79591 55097 18.5 29.0 0.68 1.69 -2.35   Army Fort William H Harrison MT Lewis & Clark 3495 53319 47556 46912 24569 5.4 15.3 0.16 12.12 1.37														
Army         Natick Soldier Center         MA         Middlesex         850         1418060         1398249         1397037         1347123         200.2         1667.8         23.56         1.42         0.05           Army         Devens Res. Trng Area         MA         Worcester         1572         725377         710420         662239         635085         64.1         461.5         4.10         2.11         7.28           Army         Camp Grayling         MI         Crawford         566         13913         12320         10628         1.5         24.6         0.28         12.93         15.92           AF         Selfridge ANGB         MI         Macomb         481         783240         718490         693630         2089704         129.1         1628.4         26.94         9.01         3.58           Navy         Construction Batallion Cntr         MS         Harrison         592         176257         165229         168762         133232         12.4         297.6         2.09         6.67         -2.09           Navy         Meridian NAS         MS         Kemper         754         10421         10330         10375         41036         5.4         109.0         0.77         1.7	AF	Hanscom AFB												
Army         Devens Res. Trng Area         MA         Worcester         1572         725377         710420         662239         635085         64.1         461.5         4.10         2.11         7.28           Army         Camp Grayling         MI         Crawford         566         13913         12320         10628         1.5         24.6         0.28         12.93         15.92           AF         Selfridge ANGB         MI         Macomb         481         783240         718490         693630         2089704         129.1         1628.4         26.94         9.01         3.58           Navy         Construction Batallion Cntr         MS         Harrison         592         176257         165229         168762         133232         12.4         297.6         2.09         6.67         -2.09           Navy         Meridian NAS         MS         Kemper         754         10421         10330         10375         0.0         13.8         0.00         0.88         -0.43           Navy         Meridian NAS         MS         Lauderdale         705         76824         75511         78371         41036         5.4         109.0         0.77         1.74         -3.65	Army	Natick Soldier Center												
Army         Camp Grayling         MI         Crawford         566         13913         12320         10628         1.5         24.6         0.28         12.93         15.92           AF         Selfridge ANGB         MI         Macomb         481         783240         718490         693630         2089704         129.1         1628.4         26.94         9.01         3.58           Navy         Construction Batallion Cntr         MS         Harrison         592         176257         165229         168762         133232         12.4         297.6         2.09         6.67         -2.09           Navy         Meridian NAS - Williams Fid         MS         Kemper         754         10421         10330         10375         0.0         13.8         0.00         0.88         -0.43           Navy         Meridian NAS         MS         Lauderdale         705         76824         75511         78371         41036         5.4         109.0         0.77         1.74         -3.65           Navy         Alpha NAAS         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Navy <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>			_									-		
AF Selfridge ANGB MI Macomb 481 783240 718490 693630 2089704 129.1 1628.4 26.94 9.01 3.58  Navy Construction Batallion Cntr MS Harrison 592 176257 165229 168762 133232 12.4 297.6 2.09 6.67 -2.09  Navy Meridian NAS - Williams Fid MS Kemper 754 10421 10330 10375 0.0 13.8 0.00 0.88 -0.43  Navy Meridian NAS MS Lauderdale 705 76824 75511 78371 41036 5.4 109.0 0.77 1.74 -3.65  Navy Alpha NAAS MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Navy Multipurpose Target Rng MS Noxubee 699 12377 12614 12926 2.7 17.7 0.39 -1.88 -2.41  Navy Millipurpose Target Rng MO Jackson 622 653745 633453 633482 746642 140.3 1050.5 22.53 3.20 0.00  AF Whiteman AFB MO Johnson 825 47192 42634 38833 35044 3.1 57.2 0.38 10.69 9.79  Army Fort Leonard Wood MO Pulaski 543 38175 41763 40660 8.9 70.3 1.64 -8.59 2.71  AF Malmstrom AFB MT Cascade 2726 79039 77722 79591 55097 18.5 29.0 0.68 1.69 -2.35  Army Fort William H Harrison MT Lewis & Clark 3495 53319 47556 46912 24569 5.4 15.3 0.16 12.12 1.37	Army	Camp Grayling								_				
Navy         Construction Batallion Cntr         MS         Harrison         592         176257         165229         168762         133232         12.4         297.6         2.09         6.67         -2.09           Navy         Meridian NAS - Williams Fid         MS         Kemper         754         10421         10330         10375         0.0         13.8         0.00         0.88         -0.43           Navy         Meridian NAS         MS         Lauderdale         705         76824         75511         78371         41036         5.4         109.0         0.77         1.74         -3.65           Navy         Alpha NAAS         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Navy         Multipurpose Target Rng         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Army         Lake City AAP         MO Jackson         622         653745         633453         633482         746642         140.3         1050.5         22.53         3.20         0.00           AF			М	Macomb					2089704					3.58
Navy         Meridian NAS - Williams Fld         MS         Kemper         754         10421         10330         10375         0.0         13.8         0.00         0.88         -0.43           Navy         Meridian NAS         MS         Lauderdale         705         76824         75511         78371         41036         5.4         109.0         0.77         1.74         -3.65           Navy         Alpha NAAS         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Navy         Multipurpose Target Rng         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Army         Lake City AAP         MO Jackson         622         653745         633453         633482         746642         140.3         1050.5         22.53         3.20         0.00           AF         Whiteman AFB         MO Johnson         825         47192         42634         38833         35044         3.1         57.2         0.38         10.69         9.79           Army         Fort William H Harrison														-2.09
Navy         Meridian NAS         MS         Lauderdale         705         76824         75511         78371         41036         5.4         109.0         0.77         1.74         -3.65           Navy         Alpha NAAS         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Navy         Multipurpose Target Rng         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Army         Lake City AAP         MO Jackson         622         653745         633453         633482         746642         140.3         1050.5         22.53         3.20         0.00           AF         Whiteman AFB         MO Johnson         825         47192         42634         38833         35044         3.1         57.2         0.38         10.69         9.79           Army         Fort Leonard Wood         MO Pulaski         543         38175         41763         40660         8.9         70.3         1.64         -8.59         2.71           AF         Malmstrom AFB         MT Cascade         272			MS	Kemper										-0.43
Navy         Alpha NAAS         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Navy         Multipurpose Target Rng         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Army         Lake City AAP         MO         Jackson         622         653745         633453         633482         746642         140.3         1050.5         22.53         3.20         0.00           AF         Whiteman AFB         MO         Johnson         825         47192         42634         38833         35044         3.1         57.2         0.38         10.69         9.79           Army         Fort Leonard Wood         MO         Pulaski         543         38175         41763         40660         8.9         70.3         1.64         -8.59         2.71           AF         Malmstrom AFB         MT         Cascade         2726         79039         77722         79591         55097         18.5         29.0         0.68         1.69         -2.35           Army         Fort william									41036				$\overline{}$	-3.65
Navy         Multipurpose Target Rng         MS         Noxubee         699         12377         12614         12926         2.7         17.7         0.39         -1.88         -2.41           Army         Lake City AAP         MO Jackson         622         653745         633453         633482         746642         140.3         1050.5         22.53         3.20         0.00           AF         Whiteman AFB         MO Johnson         825         47192         42634         38833         35044         3.1         57.2         0.38         10.69         9.79           Army         Fort Leonard Wood         MO Pulaski         543         38175         41763         40660         8.9         70.3         1.64         -8.59         2.71           AF         Malmstrom AFB         MT Cascade         2726         79039         77722         79591         55097         18.5         29.0         0.68         1.69         -2.35           Army         Fort William H Harrison         MT Lewis & Clark         3495         53319         47556         46912         24569         5.4         15.3         0.16         12.12         1.37					699	12377	12614							-2.41
Army         Lake City AAP         MO Jackson         622         653745         633453         633482         746642         140.3         1050.5         22.53         3.20         0.00           AF         Whiteman AFB         MO Johnson         825         47192         42634         38833         35044         3.1         57.2         0.38         10.69         9.79           Army         Fort Leonard Wood         MO Pulaski         543         38175         41763         40660         8.9         70.3         1.64         -8.59         2.71           AF         Malmstrom AFB         MT Cascade         2726         79039         77722         79591         55097         18.5         29.0         0.68         1.69         -2.35           AF         Not william H Harrison         MT Lewis & Clark         3495         53319         47556         46912         24569         5.4         15.3         0.16         12.12         1.37			MS	Noxubee	699	12377	12614				$\overline{}$			-2.41
AF         Whiteman AFB         MO Johnson         825         47192         42634         38833         35044         3.1         57.2         0.38         10.69         9.79           Army         Fort Leonard Wood         MO Pulaski         543         38175         41763         40660         8.9         70.3         1.64         -8.59         2.71           AF         Malmstrom AFB         MT Cascade         2726         79039         77722         79591         55097         18.5         29.0         0.68         1.69         -2.35           AFD         Officer AFD         NT         Certification         3495         53319         47556         46912         24569         5.4         15.3         0.16         12.12         1.37			-		622	653745			746642					0.00
Army         Fort Leonard Wood         MO         Pulaski         543         38175         41763         40660         8.9         70.3         1.64         -8.59         2.71           AF         Malmstrom AFB         MT         Cascade         2726         79039         77722         79591         55097         18.5         29.0         0.68         1.69         -2.35           AFD         Officer AFD					825	47192								9.79
AF         Malmstrom AFB         MT         Cascade         2726         79039         77722         79591         55097         18.5         29.0         0.68         1.69         -2.35           Army Fort William H Harrison         MT         Lewis & Clark         3495         53319         47556         46912         24569         5.4         15.3         0.16         12.12         1.37			МО	Pulaski	543	38175								2.71
Army Fort William H Harrison MT Lewis & Clark 3495 53319 47556 46912 24569 5.4 15.3 0.16 12.12 1.37					2726	79039			55097					-2.35
AE OWN AED NE COMMENT AND					3495	53319	47556							1.37
	AF (	Offutt AFB	NE :	Sarpy	239	118631	103047	94818	431464	8.9		3.73		8.68

		Г		County		<del>.,</del>		City	UrDvlp		UrDvlp		Popn
	_		Resident	Area		al Popula		Popn -	Cnty	Dnsty	Cnty		h Rate
Dept.	Property	ST	County	sq mi	1997	1990	1985	20 mi	sq mi	1997	%	90-97	85-90
Army	Mead ARNG		Saunders	763	19167	18338	18431	23680	1.9	25.1	0.25	4.52	
Navy	Fallon NAS		Churchill	4996	22664	18028	15029		0.8	4.5	0.02	25.72	
Navy	Fallon NAS - Bravo 16	-	Churchill	4996	22664	18028	15029		0.8	4.5	0.02	25.72	
	Fallon NAS - Bravo 17	_	Churchill	4996	22664	18028	15029	<u> </u>	0.8	4.5	0.02	25.72	
	Fallon NAS - Bravo 19	NV	Churchill	4996	22664	18028	15029	<u> </u>	0.8	4.5	0.02	25.72	
	Fallon NAS - Bravo 20		Churchill	4996	22664	18028	15029	000700	0.8	4.5	0.02	25.72	
	Nellis AFB	NV	Clark	8088	1106900	754622	561081	689733	72.6	136.9	0.90	46.68	
-	Nellis AFB - Indian Spmgs	ΝV	Clark	8088	1106900	754622	561081	077400	72.6	136.9	0.90	46.68	
	Nellis AFB Sm Arms Rng	NV	Clark	8088	1106900	754622	561081	677166	72.6	136.9	0.90	46.68	
	Hawthorne Army Depot	-	Mineral	3848	5736	6448	6369	<del> </del>	0.0	1.5 1.5	0.05	-11.04 50.40	
	Nellis Air Force Rng		Nye	18260	27137	18043	14706	EE7597		503.5	8.55	5.62	
	Fort Dix		Burlington	831	418459	396208	376097 376097	557527 359022		503.5	8.55	5.62	
	Mc Guire AFB	-	Burlington	831	418459 596987	396208 554111	528986	494142	73.0	1305.9	16.02	7.74	<del></del>
	Earle NWS – Mainside		Monmouth			554111	528986	8155191	73.0	1305.9	16.02	7.74	
	Earle NWS - Waterfront		Monmouth		596987 596987	554111	528986	338772	73.0	1305.9	16.02	7.74	
	Fort Monmouth		Monmouth Morris	457 482	454490	421712	419190	850436	63.0	943.6	13.09	7.77	0.60
	Picatinny Arsenal Lakehurst NASC	NJ NJ	Ocean	625	482421	434480	387772	206026	56.8	772.2	9.12	11.03	
		_	Bemalillo		525586	481991	452555	465449	88.1	452.1	7.58	9.04	
_	Kirtland AFB	_	Curry	1423	46649	42281	42890	41644	17.4	32.8	1.22	10.33	
<b>-</b>	Cannon AFB		Dona Ana	3784	166301	136523	116321	605064	13.5	44.0	0.36	21.81	17.37
	White Sands Missile Rng	-	Otero	6625	55451	51792	50312	542938	1.9	8.4	0.03	7.06	
	Fort Bliss McGregor Rng Holloman AFB	NM	Otero	6625	55451	51792	50312	27596	1.9	8.4	0.03	7.06	-
		_	Roosevelt	2472	18399	16764	16623	27000	5.0	7.4	0.20	9.75	
	Melrose Rng Fort Drum	_	Jefferson	1249	112335	111460	88954	29429	9.3	90.0	0.74	0.79	
			Onondaga	810	460898	469841	467054	176126	59.1	569.3	7.34	-1.90	<del></del>
	Hancock Field	NY	Onondaga	810	460898	469841	467054	176126	59.1	569.3	7.34	-1.90	
_	MC Reserve Trng Cntr USMA West Point	+	Orange	861	326265	308793	279432	317957	17.0	378.8	1.98	5.66	
	Seneca Army Depot	-	Seneca	374	32187	33694	33347	45401	3.9	86.1	1.04	-4.47	1.04
	Ocean Terminal Sunny Pt	+	Brunswick	836	65827	51265	44808	55530	1.5	78.7	0.19	28.41	14.41
	Cherry Point Rng BT-9	-	Carteret	488	59560	52854	48320	1	3.9	122.0	0.79	12.69	9.38
	ChPt MCAS- Bogue Fld		Carteret	488	59560	52854	48320	20268	3.9	122.0	0.79	12.69	9.38
	Cherry Point MCAS	-	Craven	689	87752	81891	79439	37631	10.8	127.3	1.57	7.16	
	Fort Bragg	+	Cumberland	671	283975	275416	261674	90170	56.8	423.1	8.45	3.11	5.25
	Pope AFB	NC	Cumberland	671	283975	275416	261674	75695	56.8	423.1	8.45	3.11	5.25
	Cherry Pt Dare Cty Rng	-	Dare	364	27935	22936	17027		1.5	76.7	0.43	21.80	34.70
_	ChPt MCAS-Oak Grove Fld	NC	Jones	474	9469	9421	9384	47376	0.8	20.0	0.16	0.51	0.39
	Camp LeJeune		Onslow	764	143263	149861	133240	30013	20.9	187.5	2.73	-4.40	12.47
	Fort Bragg - Camp Mackall	+	Richmond	474	46024	44600	45103	11643	10.4	97.0	2.20	3.19	-1.12
	Seymour Johnson AFB	_	Wayne	554	112022	104851	101193	40709	21.3	202.0	3.83	6.84	3.61
	Grand Forks AFB	_	Grand Forks	1445	69325	70532	70272	49425	14.7	48.0	1.02	-1.71	0.37
	Minot AFB		Ward	2044	59033	57762	61674	34544	3.5	28.9	0.17	2.20	-6.34
	DSC - Columbus		Franklin	557	1017393		902756	857278		1827.3	23.85	5.46	6.86
	Wright-Patterson AFB	-	Greene	404	146935	137196	129898	585709	30.5	363.7	7.55	7.10	5.62
	Ravenna AAP	_	Portage	490	150454	142759	137932	608697		307.3	1.82	5.39	
	Fort Sill	_	Comanche	1086	113947	111399	120211	102293	18.2	104.9	1.68	2.29	
	Vance AFB	_	Garfield	1045	56887	56648	64151	45309	15.5	54.4	1.48	0.42	-11.70
	Altus AFB		Jackson	816	28621	28621	31313	21910	7.0	35.1	0.85	0.00	-8.60
	Tinker AFB	_	Oklahoma	702	631053	599905	620966	718514	114.0	899.1	16.28	5.19	-3.39
	McAlester AAP		Pittsburg	1379	43134	40963	42288	16370	16.2	31.3	1.18	5.30	-3.13
	Camp Rilea	<del></del>	Ciatsop	817	35431	33424	32452	10069	5.8	43.4	0.71	6.00	-
	Kingsley Field AGS	OR	Klamath	6123	62819	57943	57476	36328	12.0	10.3	0.20	8.42	
	WINAS - Boardman Rng	_	Morrow	2030	9566	7613	8090	10040	0.8	4.7	0.04	25.65	-5.90
	Umatilla Chemical Depot	OR	Umatilla	3288	64385	59355	60024	10040	9.7	19.6	0.30	8.47	-1.11
	Site R - Raven Rock		Adams	529	85612	78729	71043	52092	3.1	161.9	0.59	8.74	
	DDD Susquehanna	_	Cumberland	565	207801	195869	185128	138624	28.6	368.0	5.08	6.09	5.80
	Inv. Cntrl - Mechanicsburg	_	Cumberland		207801	195869	185128	96432	28.6	368.0	5.08		5.80
	Fort Indiantown Gap	_	Dauphin		245713	238434	233725	102813	29.8	459.0	5.58	3.05	2.01

		$\overline{}$	Γ	County				Oltre	il In Davis	r	lu-Dl-		
			Resident	Area		tal Popula	ition	City Popn -	UrDvlp Cnty	Dnsty	UrDvip Cntv		Popn th Rate
Dept.	Property	ST	County	sq mi	1997	1990	1985	20 mi	sq mi	1997	%	90-97	
Army	Letterkenny Army Depot	_	Franklin	760	127462	121493	116882	16647	5.4	167.7	0.71	4.91	3.95
Navy	Willow Grove NAS	PA	Montgomery	482	713135	679504	654618	2252394	128.7	1478.0	26.62	4.95	
Navy	Newport Trng Cntr	RI	Newport	88	82962	87461	85347	688924	3.9	946.3	4.46	-5.14	2.48
MC	Beaufort MCAS	SC	Beaufort	577	106739	87077	77295	23694	1.9	184.9	0.34	22.58	12.66
мс	Bft MCAS - Laurel Bay Hous- ling	sc	Beaufort	577	106739	87077	77005	00004		4040			
MC	Parris Isl Recruit Depot	SC	Beaufort	577	106739	87077	77295 77295	23694 23694	1.9	184.9	0.34	22.58	
Navy	Charleston NWS	SC	Berkeley	1213	134232	129520	114451	254667	5.4	184.9 110.6	0.34	22.58	
AF	Charleston AFB	SC	Charleston	979	313478	295757	283942	254667	38.3	320.2	0.45 3.91	3.64 5.99	13.17 4.16
Army	Fort Jackson	SC	Richland	767	303742	287206	278114	226279	53.7	396.1	6.99	5.76	
AF	Shaw AFB	SC	Sumter	675	106616	101456	96362	41943	10.0	157.9	1.49	5.09	5.29
AF	Ellsworth AFB	SD	Pennington	2834	87071	81691	76825	54523	5.0	30.7	0.18	6.59	6.33
Army	Milan Arsenal	TN	Gobson	605	48083	46397	48111	48949	5.4	79.5	0.89	3.63	-3.56
Navy	Memphis NAS	TN	Shelby	790	865318	827898	789903	688085	140.7	1096.0	17.75	4.52	4.81
Army	Camp Swift NG Facility	ΤX	Bastrop	900	48830	38197	34545	11472	2.7	54.2	0.30	27.84	10.57
Army	Fort Hood	ΤX	Bell	1083	221816	191420	179511	170532	32.5	204.8	3.00	15.88	6.63
AF	Brooks AFB	ΤX	Bexar	1255	1328202	1187591		969568	160.0	1058.6	12.77	11.84	5.84
Army	Camp Bullis	ΤX	Bexar	1255	1328202	1187591		969568	160.0	1058.6	12.77	11.84	5.84
Army	Fort Sam Houston	ΤX	Bexar	1255	1328202	1187591	1122089	969568	160.0	1058.6	12.77	11,84	5.84
AF	Lackland AFB	ΤX	Bexar	1255	1328202	1187591	1122089	945956	160.0	1058.6	12.77	11.84	5.84
AF	Randolph AFB	_	Bexar	1255	1328202	1187591	1122089	1015755	160.0	1058.6	12.77	11.84	5.84
	Red River Army Depot		Bowie	938	83803	81849	80607	54287	15.8	89.3	1.69	2.39	1.54
Army	Fort Bliss	_	El Paso		690290	595939	538809	538337	44.4	694.8	4.47	15.83	10.60
_	Longhorn Ordnance AAP		Harrison	928	59561	57422	56876	23682	8.1	64.2	0.87	3.73	0.96
	Kingsville NAS		Kleberg	873	30172	30074	33998	25276	4.6	34.5	0.53	0.33	-11.54
	Corpus Christi NAS	-	Nueces		316498	291703		269677	45.6	370.0	5.33	8.50	-0.01
Army AF	Fort Wolters Carswell Air Reserve	_	Parker Taman	914	78654	65263	54281	29674	4.3	86.0	0.47	20.52	20.23
	Dyess AFB	X	Tarrant Taylor	899	1326044	1176328	1043207	1027427		1474.8	18.76	12.73	12.76
	Goodfellow AFB		Tom Green	930 1563	121017 102344	119533 98265	122466 96368	106654	13.9	130.1	1.49	1.24	-2.39
	Laughlin AFB		Val Verde	3263	42989	38566	39365	84474 30705	16.6 3.1	65.5 13.2	1.06	4.15	1.97
	Sheppard AFB	-	Wichita	622	128958	122199	126136	106404		207.2	0.10 2.68	11.47	-2.03
	Hill AFB	-	Davis	636	226974	188899		237624	17.0	356.6	2.67	5.53 20.16	-3.12 11.19
Army	Green River Launch Cmplx		Grand	3661	8103	6617	7391	237024	1.9	2.2	0.05	22.46	-10.47
	Deseret Chemical Depot		Tooele	7263	31465	26677	27432	13887	6.2	4.3	0.09	17.95	-10.47 -2.75
	Dugway Proving Grounds		Tooele	7263	31465	26677	27432	1000/	6.2	4.3	0.09	17.95	-2.75
Army	Tooele Army Depot	UT	Tooele	7263	31465	26677		213439	6.2	4.3	0.09	17.95	-2.75
AF	Utah Test Rng (North)	UT	Tocele	7263	31465	26677	27432		6.2	4.3	0.09	17.95	-2.75
			Tooele	7263	31465	26677	27432		6.2	4.3	0.09	17.95	-2.75
			Utah	2170	329333	264634		715675		151.8	1.27	24.45	8.22
			Weber		182403	158681	156087	175504		276.5	4.75	14.95	1.66
			Chittenden	618	141558	132113	122341	73191	3.9	229.1	0.63	7.15	7.99
	Ethan Allen Firing Rng		Chittenden		141558	132113		60183	3.9	229.1	0.63	7.15	7.99
			Caroline		21690	19345	18223	19027	0.0	40.4	0.00	12.12	6.16
			Chesapeake		195924	153471		910181		576.7	3.09	27.66	19.14
			Dinwiddie		76004	75576	77178			150.2	3.44	0.57	-2.08
			Fairfax			850609		2154444		2381.4	25.00	11.14	14.30
			Hampton		138549	134059		679979		2727.5	59.85	3.35	5.89
			Hampton King Coorse		138549	134059		679979		2727.5	59.85	3.35	5.89
			King George		16913	13623		28717	0.0	95.1	0.00	24.15	
			Newport News Norfolk					430280		2329.3	43.52	1.64	9.77
			Nonoik Portsmouth					1225024		4760.9	81.75		-2.03
			Portsmouth			103772		1277165		2830.7	64.89	-4.16	-2.62
			Prince George		99451 52481	103772 50615		1096115		2830.7	64.89	-4.16	-2.62
			Prince William					321266		188.2	3.10	3.69	1.13
			Pulaski		34344	34604		558380 65534		888.2	4.57	18.03	26.46
			Pulaski		34344			65534		103.1	0.93	-0.75	-1.79
		1	JAKO14	333	UTUTT	UTUUT	いつたむひ	<b>UUUU</b> 4	J.1	103.1	0.93	-0.75	-1.79

			Resident	County Area		tal Popula	tion	City Popn -	UrDvip Cnty	Dnsty	UrDvip Cnty	Total Growt	Popn h Rate
Dept.	Property	ST	County	sq mi	1997	1990	1985	20 mi	sq mi	1997	%	90-97	85-90
Navy	Dam Neck Trng Cntr	VA	Virginia Beach	267	431179	395829	321304	806274	9.3	1613.2	3.46	8.93	23.19
	Fort Story	VA	Virginia Beach	267	431179	395829	321304	891998	9.3	1613.2	3.46	8.93	23.19
	Little Creek NAB	VA	Virginia Beach	267	431179	395829	321304	1054979	9.3	1613.2	3.46	8.93	
	Oceana NAS	VA	Virginia Beach	267	431179	395829	321304	910181	9.3	1613.2	3.46	8.93	23.19
Navy	Camp Peary	VA	York	108	68976	53758	47936	192580	0.8	641.3	0.60	28.31	12.15
Navy	Yorktown NWS	VA	York	108	68976	53758	47936	326373	0.8	641.3	0.60	28.31	12.15
Navy	Yorktown NWS - Cheatham	VA	York	108	68976	53758	47936	326373	0.8	641.3	0.60	28.31	12.15
Navy	Whidbey Island NAS	WA	Island	231	70472	60968	48703	46274	0.0	305.2	0.00	15.59	25.18
Navv	WINAS - Ault Field	WA	Island	231	70472	60968	48703	46274	0.0	305.2	0.00	15.59	25.18
	Indian Island Magazine	WA	Jefferson	1773	25717	20687	17443	17176	0.0	14.5	0.00	24.31	18.60
_	Bangor Nvi Sub Base	WA	Kitsap	391	234165	192001	163546	698555	22.8	598.9	5.85	21.96	17.40
Navy	Puget Sound Shipyard	WA	Kitsap	391	234165	192001	163546	740408	22.8	598.9	5.85	21.96	17.40
	Fort Lewis	WA	Pierce	1652	665171	590449	528270	527973	74.6	402.7	4.53	12.66	11.77
AF	McChord AFB	WA	Pierce	1652	665171	590449	528270	571115	74.6	402.7	4.53	12.66	
AF	Fairchild AFB	WA	Spokane	1789	405362	362884	355734	199522	70.3	226.5	3.95	11.71	2.01
Army	Yakima Firing Center	WA	Yakima	4288	215771	189409	181321	78426	13.5	50.3	0.32	13.92	4.46
Army	Volk Field CRTC	WI	Juneau	816	23911	21667	21162		3.5	29.3	0.43	10.36	
Army	Fort McCoy	WI	Monroe	915	39311	36766	35565		5.0	43.0	0.55	6.92	3.38
AF	Francis E Warren AFB	WY	Laramie	2702	78593	73124	73102	50008	13.5	29.1	0.50	7.48	0.03

Table A9. Earnings, proximity, and DOD indicators and factors.

				DOD	Π	Per (	Capita Ea	rnings	Er	nployme	nt	ME	Net	ME
		ļ		Cnty	UA			Grwth	Total		· · · · · · · · · · · · · · · · · · ·	% of	Chng	Per
Dept.	Bronastu		Resident	Area	Prox.	\$	\$	%	(TE)		ry (ME)	TE	in ME	DOD
<u> </u>	Property	ST		acres	Class		1990	90-97	1997	1997	1985	1997	85 <del>-9</del> 7	Area
	WFNAS- Barin Fld		Baldwin	650	5	22431	15516	44.57	59847	873	803	1.46	70	1.34
	WFNAS- Silverhill Fld	AL	Baldwin	650	5_	22431	15516	44.57	59847	873	803	1.46	70	1.34
	WFNAS- Summerdale Fld Anniston Army Depot	AL AL	Baldwin Calhoun	650	5	22431	15516	44.57	59847	873	803	1.46	70	1.34
	Fort Rucker	AL	Dale	15279 63232	3	18855 17787	13815	36.48	64718	4380	8128	6.77	-3748	0.29
	Redstone Arsenal	+	Madison	37910	2	24537	13232 19504	34.42	25570	4264	7946	16.68	-3682	0.07
	Maxwell AFB		Montgomery	4104	2	24103	17814	25.80 35.30	181911 160962	3480 6676	5949	1.91	-2469	0.09
	Fort Huachuca		Cochise	104012	6	16532	12872	28.43	47008	6468	6696 6526	4.15 13.76	-20 -58	1.63
	Ft Huachuca - Dry Lake	ΑZ	Cochise	104012	6	16532	12872	28.43	47008	6468	6526	13.76	-58	0.06
Army	Camp Navaho	ΑZ	Coconino	28400	6	18180	13240	37.31	63045	306	341	0.49	-35	0.01
Navy	Nvl Obervatory Flagstaff	_	Coconino	28400	6	18180	13240	37.31	63045	306	341	0.49	-35	0.01
Army	Buckeye NG Target Rng		Магісора	5304	4	24601	18621	32.11	1651984	12824	16110	0.78	-3286	2.42
AF	Luke AFB		Магісора	5304	2	24601	18621	32.11	1651984	12824	16110	0.78	-3286	2.42
AF	Luke AFB - ALF 1	ΑZ	Maricopa	5304	4	24601	18621	32.11	1651984	12824	16110	0.78	-3286	2.42
AF	Davis-Monthan AFB	ΑZ	Pima	10633	2	21068	15683	34.34	401611	8063	7009	2.01	1054	0.76
	Camp Florence		Pinal	26232	5	15372	11822	30.03	53397	366	373	0.69	-7	0.01
	Rittenhouse Trng Area		Pinal	26232	4	15372	11822	30.03	53397	366	373	0.69	-7	0.01
	Barry M. Goldwater Rng	_	Yuma	4136370	3	15629	12605	23.99	64713	4470	4689	6.91		0.00
	Yuma MC Air Station	-	Yuma	4136370		15629	12605	23.99	64713	4470	4689		-219	0.00
		AZ	Yuma	4136370	5	15629	12605	23.99	64713	4470	4689		-219	0.00
	Pine Bluff Arsenal		Jefferson	14500	2	18109	13463	34.51	43516	550	758	1.26	-208	0.04
			Pulaski	40210	2	25889	18302	41.45	292760	6733	9369	2.30	-2636	0.17
		-	Pulaski	40210	2	25889	18302		292760	6733	9369	2.30	-2636	0.17
		_	Sebastian	66000	2	22413	16461	36.16	86008	626	706	0.73	-80	0.01
			Alameda	2705	2	29683	22209		823544	4948	19305		-14357	1.83
	Concord Ocean Terminal		Contra Costa	12800	2	33869	26211		443315	2695	5109	0.61	-2414	0.21
			Contra Costa	12800	2	33869	26211		443315	2695	5109		-2414	0.21
			Imperial	59000	6	14833	15576	-4.77	61598	534	570	0.87	-36	0.01
7			Imperial	59000	6	14833	15576	-4.77	61598	534	570	0.87	-36	0.01
			imperial Kern	59000	6	14833	15576	-4.77	61598	534	570	0.87	-36	0.01
		_	Kem	1403067 1403067	<u>6</u> 3	18319	16012		296638	6045	6897		-852	0.00
			Kings/Fresno	39173	6	18319 14559	16012 12472	14.41 16.73	296638	6045	6897		-852	0.00
			Lassen	36000	6	14502	12586	15.22	49328	5056	6681	_		0.13
			Los Angeles	NA NA	6	25719	21532		12725 5200772	102 22286	441 39041			0.00
			Monterey	166634	6	25747	19603		200607	5872	24250			NA O O 4
	Presidio of Monterey	CA		166634	2	25747	19603		200607	5872	24250			0.04
		CA	Orange	16823	1	30115			1670828	12958	20044	0.78	18378	0.04
			Riverside	6885	2	20645	18688		551556	3097	6624	0.56		0.77
MC			S Bernardino	1245535	6	18673	16628		631713	17640	27105	2.79		0.43
				1245535	6	18673	16628		631713	17640	27105	2.79		0.01
Army				1245535	6	18673	16628		631713	17640	27105	2.79		0.01
MC				1245535	6	18673	16628		631713	17640	27105	2.79		0.01
MC				269590	2	24965	20238				142127			0.40
		CA		269590	2	24965	20238		1543307		142127		35749	
Navy	Miramar MCAS	CA	San Diego	269590	2	24965	20238		1543307	106378			35749	
Navy I				269590	1	24965	20238				142127		35749	
				269590	2	24965	20238				142127		35749	
	San Diego Nvl Station			269590	1	24965	20238				142127		35749	
				269590	1	24965	20238		1543307		142127		35749	
				269590	2	24965	20238		1543307		142127	6.89 -		0.40
			San Joaquin	3511	3	20092	16596		237859	1176	1569	0.49 -		0.34
			San Joaquin	3511	2	20092	16596		237859	1176	1569	0.49 -		0.34
			S Luis Obispo	42784	6	22568	17622	28.07	125651	504	577	0.40		0.01
AF \	Vandenburg AFB	CA	Santa Barbara	98256	2	27839	22361	24.50	232351	4348	5254	1.87 -		0.04

Property   ST   County   Area   Prox.   S   S   S   M   Total   Milliary (ME)   Temperature   Temp			Γ		DOD	Γ	Per C	apita Ea	rnings	En	ploymer	nt	ME	Net	ME
Dept.   Property   ST   County   earse   Class   1997   1990   19947   1997   1997   1995   1997   1994   1997   1997   1995   1997   1994   1994   1995   1997   1995   1997   1995   1997   1995   1997   1995   1997   1995   1997   1995   1997   1995   1995   1997   1995   1995   1997   1995   1995   1997   1995						UA							% of	Chng	Per
Table   Travis AFB		_	l									<del></del>			DOD
NAMY   Point Mugur NAMY   San Nicolas   C.A. Ventura   1980   2   26858   20002   20,73   802997   7080   9228   1.95   2446   Navy   Point Nugur NAMY   C.A. Ventura   1980   2   26858   20002   20,73   802997   7080   9228   1.95   2446   Navy   Point Numere GBC   C.A. Ventura   1980   2   26858   20002   20,73   802997   7080   9226   1.95   2446   AF   Beale AFB   C.A. Yuba   22944   3   1580   22033   362997   7080   9226   1.95   2446   AF   Beale AFB   C.A. Yuba   22944   3   1580   23032   24185   1418   340902   2021   1935   688   497   Army   Brut Carson   C.O.   C. Peas   157290   2   24933   17028   3797   399028   20055   34227   941   5172   AF   NORAD COC Char   C.O.   C. Peas   157290   2   24938   17028   3797   399028   20055   34227   941   5172   AF   LISAF ACASETY   C.O.   C. PEAS   157292   2   22498   17028   3797   399028   20055   34227   941   5172   AF   LISAF ACASETY   C.O.   C. PEAS   157292   2   22498   17028   3797   399028   20055   34227   941   5172   AF   LISAF ACASETY   C.O.   C. PEAS   157202   2   22498   17028   3797   399028   20055   34227   941   5172   ARMY   PLOCATION   C.O.   C. PEAS   157202   2   24981   17028   3797   399028   20055   34227   941   5172   ARMY   PLOCATION   C.O.   C. PEAS   157202   2   24981   17028   3797   399028   20055   34227   941   5172   ARMY   PLOCATION   C.O.   C. PEAS   157202   2   24981   17028   3797   399028   20055   34227   941   5172   ARMY   PLOCATION   C.O.   C. PEAS   157202   2   24981   17028   3797   399028   20055   34227   941   5172   ARMY   PLOCATION   C.O.   C. PEAS   157202   2   24981   17028   3797   399028   20055   34227   941   5172   ARMY   PLOCATION   C.O.   C. PEAS   C. PE			_												Area
Nasy   Point Magu NAWS			_			-			-						1.17
Nay   Port Huemere CBC			+												0.36
AFF   Beale AFB   CA   Waba   22944   3   15600   20866   2313   26158   3344   4530   12.78   1486   1477   1477   1572   1477   1477   1572   1477   1572   1477   1477   1572   1477   147			+												0.36
Army, Buddey ANGB CO   Arapahoe   3922   2   84233   24187   4153   3446012   2202   1905   0.68   497   477	_	· · · · · · · · · · · · · · · · · · ·													0.15
Army   Fort Carson   CO   El Paso   157229   2   23493   17028   37.97   309028   29665   34237   9.41   5772     AF   NORAD COC Cntr   CO   El Paso   157829   2   23493   17028   37.97   309028   29665   34237   9.41   5772     AF   Pelerson AFB   CO   El Paso   157829   2   23493   17028   37.97   309028   29665   34237   9.41   5772     AF   USAFA - Farish Re Area   CO   El Paso   157829   2   23493   17028   37.97   309028   29665   34237   9.41   5772     AF   USAFA - Farish Re Area   CO   El Paso   157829   2   23493   17028   37.97   309028   29665   34237   9.41   5772     Army   F1 Carson-Pinon Carryon   CO   Las Animas   235900   6   16233   11996   35.43   8828   45   65   0.66   20.43     Army   Puelo Ordinance Depoil   CO   Pueblo   22121   4   20274   4180   42.98   67455   413   693   601   206     Army   Puelo Ordinance Depoil   CO   Washington   1812   2   28465   20393   36.0   159109   19075   15752   6.90   4777     Navy   Anacostia NM Station   CO   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Bolling AFB   CO   C   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Dover AFB   CO   C   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Dover AFB   CO   C   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Dover AFB   CO   C   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Dover AFB   CO   C   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Tover AFB   C   Bay   30218   1   20392   15102   35.03   81872   3550   5778   6.53   428     AF   Tover AFB   C   C   C   Washington   1842   1   35704   25646   39.22   712199   24417   25104   3.43   587     AF   Cape Canaveral AFS   F L   Bay   30218   2   20392   15102   35.03   81872   3550   5778   6.53   428     AF   Tovel AFB   F L   Bay   30218   2   20392   15102   35.03   81872			+												0.60
AF PORPAD COC Cntr OD EI Paso 157629 2 23493 17028 37.97 390028 2905 34237 9.41 5722 AF Peterson AFB OD EI Paso 157629 2 23493 17028 37.97 390028 29055 34237 9.41 5722 AF USAF Academy OD EI Paso 157629 2 23493 17028 37.97 390028 29055 34237 9.41 5722 AF USAF Academy OD EI Paso 157629 4 23493 17028 37.97 390028 29055 34237 9.41 5722 AF USAF Academy Price and Price			+			-			<del></del>						0.00
AF Peterson AFB CO El Paso 157829 2 2 2493 17028 3737 309028 29065 34237 9.41 5-172 AF USAF Academy AF Carson-Pinon Caryon CO Las Animas AFF To Carson-Pinon Caryon CO Las Animas AFF															0.18
AF USAF Academy  CO El Paso  157829 4 23493 17028 3797 309028 29065 34237 9.41 5172  AF USAFA Farish RecArea  CO El Paso  157829 4 23493 17028 3797 309028 29065 34237 9.41 5172  AF USAFA Farish RecArea  CO El Paso  157829 4 23493 17028 3797 309028 29065 34237 9.41 5172  Army File Carson-Pieno Caryon  CO Lea Animas  255600 6 16233 11986 55.43 6628 45 65 0.66 5 0.66 1.20  Army Pueblo Ordinance Depot  CO Pueblo  23121 4 20274 14180 42.98 67455 4113 699 0.61 1298  Army New London Sub Base  CT New London  1812 2 28466 399.28 712199 24417 25104 3.43 687  AF Bolling AFB  DC Washington  1842 1 35704 25646 39.22 712199 24417 25104 3.43 687  AF Bolling AFB  DC Washington  1842 1 35704 25646 39.22 712199 24417 25104 3.43 687  AF Dover AFB  DE Kent  3908 2 20776 15665 32.63 66574 4771 5928 7.11 157  AFP Over AFB  DE Kent  3908 2 20776 15665 32.63 66574 4771 5928 7.17 1157  AFP Over AFB  DE Kent  3908 1 2 20766 15665 32.63 66574 4771 5928 7.17 1157  AFP Control AFB  AFF Control AFB  FL Bray  30218 2 20392 15102 35.03 81872 5350 5778 6.53 428  AFF Tyndal AFB  FL Bray  30218 2 22505 18170 2386 223815 4003 5007 1.79 11004  AFP Patrick AFB  FL Bray  30218 2 22505 18170 2386 223815 4003 5007 1.79 11004  AFP Patrick AFB  FL Clay  NA 5 21064 17723 28.17 44873 317 243 0.71 74  Navy Jacksonville NAS  FL Duval  6475 1 24355 18129 34.34 548301 30762 37297 5.61 16355  Navy Mayporn Naval Station Tmp Cntr  FL Essambla  8940 3 19852 15132 31.19 162103 1521 1147 9.38 8766  Navy MyFNAS- Sauley Fld  FL Essambla  8940 2 19852 15132 31.19 162103 1521 1147 9.38 8766  Navy WFNAS- Sunley Fld  FL Essambla  8940 2 19852 15132 31.19 162103 1521 1147 9.38 8766  Navy WFNAS- Sunley Fld  FL Essambla  8940 3 19852 15132 31.19 162103 1521 1147 9.38 8766  Navy WFNAS- Sunley Fld  FL Essambla  8940 1 19852 15132 31.19 162103 1521 1147 9.38 8766  Navy WFNAS- Sunley Fld  FL Essambla  8940 1 19852 15132 31.19 162103 1521 1147 9.38 8766  Navy WFNAS- Spencer Fld  FL Santa Rosa  11401 4 19827 15225 28.28 56666 1576 2070 4.42 494  Navy WFNAS- Spencer Fld  FL Santa			+-												0.18
AF   USAFA - Farish Rec Area   CO   El Paso   157829   4   28493   77028   377   309028   28065   34237   9.41   1.5172			+							<del></del>					0.18
Army   Fi Carson-Pinor Canyon   CO   Las Animas   25600   6   16233   11960   34.3   6828   45   56   0.66   20   20   20   20   20   20   20			-												0.18
Army   Pueblo Ordnance Depot   CO   Pueblo   23121   4   20274   14180   42.98   67455   413   689   0.61   1286   Navy New London Sub Base   CT   New London   1812   2   28465   20393   36.80   159109   10975   15752   6.90   4777   4778	_		_												0.00
Nav   New London Sub Base			+												0.02
Navy   Anacosta Nvf Station   DC   Washington   1842   1   95704   25846   39.22   712199   24417   25104   3.43   687											-				6.06
AF   Bolling AFB   DC   Washington   1842   1   35704   25846   39.22   712199   24417   25104   3.43   687     Navy IN/ Research Lab. DC   DC   Washington   1842   1   35704   25846   39.22   712199   24417   25104   3.43   687     AF   Dover AFB   DE   Kent   3908   2   20776   15685   32.63   66574   471   5928   7.17   1157     Navy   Panama City NCSS   FL   Bay   30218   1   20392   15102   35.03   81872   5350   5778   6.53   428     AF   Tyndall AFB   FL   Bay   30218   2   20392   15102   35.03   81872   5350   5778   6.53   428     AF   Tyndall AFB   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004     AF   Partick AFB   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004     AF   Partick AFB   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004     AF   Partick AFB   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004     AF   Homestead ARB   FL   Dade   887   2   21694   17123   26.17   44873   36328   11223   0.56   4085     Navy   Mayport Naval Station   FL   Duval   6475   1   24355   18129   34.34   548301   30762   37297   5.61   6535     Navy   Mayport Naval Station   FL   Escambia   8940   1   19852   15132   31.19   182103   15213   11447   9.38   3766     Navy   Kings OLF   FL   Escambia   8940   2   19852   15132   31.19   182103   15213   11447   9.38   3766     Navy   WFNAS- Saufley Fid   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS- Saufley Fid   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS- Saufley Fid   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS- Saufley Fid   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS- Saufley Fid   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     N														******	13.26
Navy   NuRsesarch Lab. DC						<del></del>									13.26
AF   Dover AFB   DE   Kent   3908   2   20776   15665   32.63   6574   4771   5928   7.17   1157     Navy Panama City NCSS   FL   Bay   30218   1   20392   15102   35.03   81872   5350   5778   6.53   428     AF   Tyndall AFB   FL   Bay   30218   1   20392   15102   35.03   81872   5350   5778   6.53   428     AF   Cape Canaveral AFS   FL   Brevard   17776   2   22505   15102   35.03   81872   5350   5778   6.53   428     AF   Cape Canaveral AFS   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004     AF   Patrick AFB   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004     AF   Patrick AFB   FL   Dade   867   2   21688   17884   2127   1168273   6528   11223   0.56   4695     Navy Lacksonville NAS   FL   Duval   6475   1   24355   18129   34.34   548301   30762   37287   5.61   6535     Navy Lacksonville NAS   FL   Escambia   6940   1   19682   15132   31.19   162103   15213   11447   9.38   3766     Navy Expansion LAS   FL   Escambia   8940   2   19682   15132   31.19   162103   15213   11447   9.38   3766     Navy Pensacola NAS   FL   Escambia   8940   2   19682   15132   31.19   162103   15213   11447   9.38   3766     AF   MacDill AFB   FL   Hillsborough   6393   2   23719   17248   37.52   644894   73   9123   1134   1347   9.38   3766     AF   MacDill AFB   FL   Monroe   5293   6   29657   21767   36.25   51049   1667   3123   3.7   1456     AF   Avon Park Ring   FL   Marlon   5825   6   19723   14971   31.74   101986   555   448   0.54   107     Navy Wey West NAS   FL   Monroe   5293   6   29657   21767   36.25   51049   1667   3123   3.7   42   434     Avoy WirNAS- Harold Fid   FL   Santa Rosa   11401   4   19627   15225   28.26   35666   1576   2070   4.42   494     Navy WirNAS- Spencer Fid   FL   Santa Rosa   11401   5   19527   15225   28.26   35666   1576   2070   4.42   494     Navy WirNAS- Spencer Fid   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     Navy WirNAS- Spencer Fid   FL   S			_			1				<del> </del>					13.26
Navy   Panama City NCSS						2								-1157	1.22
AF   Tyndail AFB   FL   Bay   30218   2   20392   15102   35.03   81872   5350   5778   6.53   428	_					1					5350	5778	6.53	-428	0.18
AF   Cape Canaveral AFS						2	20392		35.03	81872	5350	5778	6.53	-428	0.18
AF   Patrick AFB   FL   Brevard   17776   2   22505   18170   23.86   223815   4003   5007   1.79   1004					17776	2	22505	18170	23.86	223815	4003	5007	1.79	-1004	0.23
AF Homestead ARB FL Dade 867 2 21688 17884 21.27 1168273 6528 11123 0.56 4685 Navy Jacksonville NAS FL Duval 6475 1 24355 18129 34.34 548301 30762 37297 5.61 6535 Navy Mayport Naval Station FL Duval 6475 2 24355 18129 34.34 548301 30762 37297 5.61 6535 Navy Corry Station Trig Cntr FL Escambia 8940 1 19852 15132 31.19 152103 15213 11447 9.38 3766 Navy Pensacola NAS FL Escambia 8940 3 19852 15132 31.19 152103 15213 11447 9.38 3766 Navy Pensacola NAS FL Escambia 8940 2 19852 15132 31.19 162103 15213 11447 9.38 3766 Navy Pensacola NAS FL Escambia 8940 2 19852 15132 31.19 162103 15213 11447 9.38 3766 Navy WFNAS-Saufley Fid FL Escambia 8940 2 19852 15132 31.19 162103 15213 11447 9.38 3766 Navy Pensacola NAS FL Hillsborough 5631 2 23719 17248 37.52 644694 7673 9129 1.19 1456 Navy WFNAS-Saufley Fid FL Escambia 8940 2 19852 15132 31.19 162103 15213 11447 9.38 3766 Navy Pinecastle Target Rng FL Marion 5223 6 19723 14971 31.74 101986 555 448 0.54 107 Navy Key West NAS FL Monroe 5293 6 29657 21767 3625 51049 1657 3123 327 1456 Navy Pinecastle Target Rng FL Okaloosa 463452 2 22274 16270 36.90 105421 15815 13129 15.00 2688 AF Avon Park Rng FL Pulnam NA 6 15976 11797 36.25 51049 1667 3123 327 1456 Navy WFNAS-Choctaw Fid FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-Choctaw Fid FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS-SantaRosa FL Santa Rosa 11401 4 19527 15225 28.26 35666	_	<del></del>	FL	Brevard	17776	2	22505	18170	23.86	223815	4003	5007	1.79	-1004	0.23
Navy   Mayport Nava   Station   FL   Duval   6475   1   24355   18129   34.34   548301   30762   37297   5.61   6535	Navy	Stevens Lake Rng	FL	Clay	NA	5	21604	17123	26.17	44873			_		NA
Navy   Mayport Naval Station   FL   Duval   6475   2   24355   18129   34.34   548301   30762   37297   5.61   6535     Navy   Corry Station Tmg Cntr   FL   Escambia   8940   1   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   Kings OLF   FL   Escambia   8940   3   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   Pensacola NAS   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS Saufley Fld   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS Saufley Fld   FL   Escambia   8940   2   19852   15132   31.19   162103   15213   11447   9.38   3766     Navy   WFNAS Saufley Fld   FL   Hillsborough   5631   2   23719   17248   37.52   644694   7673   9129   1.19   1456     Navy   Pinecastle Target Rng   FL   Monroe   5283   6   29657   21767   3625   51049   1667   3123   327   1456     Navy   WFNAS   FL   Monroe   5283   6   29657   21767   3625   51049   1667   3123   327   1456     AF   Eglin AFB   FL   Okaloosa   463452   2   22274   16270   36.90   105421   15815   13129   15.00   2686     AF   Avon Park Rng   FL   Polk   100929   6   20625   15368   34.21   217742   1052   1027   0.48   25     Navy   WFNAS   Choctaw Fld   FL   Santa Rosa   11401   5   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS   Harold Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS   Senter Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS   Senter Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS   Senter Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS   Senter Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS   Senter Fld   FL   Santa Rosa   11401   4   19527	AF	Homestead ARB	FL	Dade	867	2	21688	17884							7.53
Navy   Corry Station Tmg Cntr   F.L.   Escambia   8940   1   19852   15132   31.19   162103   15213   11447   9.38   3766	Navy	Jacksonville NAS	FL	Duval	6475	1	24355	18129		<del></del>	<del></del>				4.75
Navy   Rings OLF   FL   Escambia   8940   3   19852   15132   31.19   162103   15213   11447   9.38   3766	Navy	Mayport Naval Station	FL	Duval		2									4.75
Navy   Pensacola NAS	Navy	Corry Station Trng Cntr													1.70
Navy         WFNAS- Saufley Fld         FL         Escambia         8940         2         19852         15132         31.19         162103         15213         11447         9.38         3766           AF         MacDill AFB         FL         Hillsborough         5631         2         23719         17248         37.52         644694         7673         9129         1.19         -1456           Navy         Pinecastle Target Rng         FL         Marion         5825         6         19723         14971         31.74         101996         555         448         0.54         107           Navy         Key West NAS         FL         Monroe         5293         6         29657         21767         36.25         51049         1667         3123         3.27         1456           AF         Egin AFB         FL         Okaloosa         463452         2         22274         16270         36.90         105241         15815         13129         15.00         2688           AF         Avon Park Rng         FL         Polk         100929         6         20625         15368         34.21         217742         1052         1027         0.48         25      <															1.70
AF         MacDill AFB         FL         Hillsborough         5631         2         23719         17248         37.52         644694         7673         9129         1.19         -1456           Navy         Pinecastle Target Rng         FL         Marion         5825         6         19723         14971         31.74         101986         555         448         0.54         107           Navy         Key West NAS         FL         Monroe         5293         6         29657         21767         36.25         51049         1667         3123         3.27         -1456           AF         Eglin AFB         FL         Okalosoa         463452         2         22274         16270         36.90         105421         15815         3123         3.27         -1456           AF         Avon Park Rng         FL         Polk         100929         6         20625         15388         34.21         2177742         1052         1027         0.48         25           Navy         McNashar         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         494															1.70
Navy   Pinecastle Target Rng   FL   Marion   5825   6   19723   14971   31.74   101986   555   448   0.54   107     Navy   Key West NAS   FL   Monroe   5293   6   29657   21767   36.25   51049   1667   3123   3.27   1456     AF   Eglin AFB   FL   Okaloosa   463452   2   22274   16270   36.90   105421   15815   13129   15.00   2686     AF   Avon Park Rng   FL   Polik   100929   6   20625   15368   34.21   217742   1052   1027   0.48   25     Navy   Rodman Bombing Rng   FL   Putuam   NA   6   15976   11797   35.42   21928   164   163   0.75   1     Navy   WFNAS-Choctaw Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Harold Fld   FL   Santa Rosa   11401   5   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Holley Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494     Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527						-									1.70
Navy         Key West NAS         FL         Monroe         5283         6         29657         21767         36.25         51049         1667         3123         3.27         1456           AF         Eglin AFB         FL         Okaloosa         463452         2         22274         16270         36.90         105421         15815         13129         15.00         2686           AF         Avon Park Rng         FL         Polk         100929         6         20625         15368         34.21         217742         1052         1027         0.48         25           Navy         Rodrana Bombing Rng         FL         Putnam         NA         6         15976         11797         35.42         21928         164         163         0.75         1           Navy         WFNAS- Choctaw Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         WFNAS- Harlod Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         -494 <t< td=""><td>_</td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>1.36</td></t<>	_		_									-			1.36
AF         Eglin AFB         FL         Okaloosa         463452         2         22274         16270         36.90         105421         15815         13129         15.00         2686           AF         Avon Park Rng         FL         Polk         100929         6         20625         15368         34.21         217742         1052         1027         0.48         25           Navy         Rodman Bombing Rng         FL         Putnam         NA         6         15976         11797         35.42         21928         164         163         0.75         1           Navy         WFNAS- Choctaw Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         WFNAS- Holley Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         WFNAS- SantaRosa Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         494 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.10</td>			-			-									0.10
AF Avon Park Rng FL Polk 100929 6 20625 15368 34.21 217742 1052 1027 0.48 25 Navy Rodman Bombing Rng FL Putnam NA 6 15976 11797 35.42 21928 164 163 0.75 1 1 Navy WFNAS- Choctaw Fld FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Harold Fld FL Santa Rosa 11401 5 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Holley Fld FL Santa Rosa 11401 3 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- SantaRosa Fld FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Spencer Fld FL Santa Rosa 11401 3 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Spencer Fld FL Santa Rosa 11401 3 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Spencer Fld FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Spencer Fld FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy Whiting Field NAS FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy Whiting Field NAS FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy Kings Bay Sub Support GA Camden 16667 5 13664 12082 13.09 21841 5792 2066 26.52 3726 Army Fort Benning GA Chattahoochee 184051 2 19068 12953 47.21 14300 12619 17209 88.24 -4590 Army Ft McPherson- Ft Gillem GA Clayton 1424 1 20236 15881 27.42 126667 818 841 0.65 -23 AF Dobbins AFB GA Cobb 7283 1 30263 22435 34.89 346871 3287 2809 0.95 478 MC MC Logistics - Albany GA Dougherty 3841 2 20600 14635 40.76 67171 1214 1687 1.81 473 (Army Fort McPherson GA Fulton 487 1 37800 26154 44.53 822595 4537 5145 0.55 608 1476 (Army Fort McPherson GA Liberty 279271 3 13491 8673 55.55 31655 15972 14887 50.46 1085 (Army Fort Stewart GA Liberty 279271 3 13491 8673 55.55 31655 15972 14887 50.46 1085 (Army Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 (AF Mountain Home AFB ID Elmore 9000 6 16632 15260 8.99 13089 4311 4042 32.94 269			-								<del></del>				0.03
Navy   Rodman Bombing Rng   FL   Putnam   NA   6   15976   11797   35.42   21928   164   163   0.75   1   1   Navy   WFNAS- Choctaw Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Harold Fld   FL   Santa Rosa   11401   5   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Holley Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- SantaRosa Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- SantaRosa Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   3   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   Navy   WFNAS- Spencer Fld   FL   Santa Rosa   11401   4   19527   15225   28.26   35666   1576   2070   4.42   494   1   1   1   1   1   1   1   1   1			-												0.03
Navy         WFNAS- Choctaw Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         WFNAS- Harold Fld         FL         Santa Rosa         11401         5         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         WFNAS- Holley Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         WFNAS- SantaRosa Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         WFNAS- Spencer Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         494           Navy         Wings Bay Sub Support         GA         Camden         16667         5         13664         12082         13.09         21841         5792         2066         26.52			-					_			-		-		NA
Navy         WFNAS- Harold Fid         FL         Santa Rosa         11401         5         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         WFNAS- Holley Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         WFNAS- SantaRosa Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         WFNAS- Spencer Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Whiting Field NAS         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Kings Bay Sub Support         GA         Camden         16667         5         13664         12082         13.09         21841         5792         2066         26.52<						-									0.14
Navy         WFNAS- Holley Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         WFNAS- SantaRosa Fld         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         WFNAS- Spencer Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Whiting Field NAS         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Kings Bay Sub Support         GA         Camden         16667         5         13664         12082         13.09         21841         5792         2066         26.52         3726           Army         Fot Benning         GA         Chattahoochee         184051         2         19068         12953         47.21         14300         12619         17209         88.24						<del>-</del>									0.14
Navy WFNAS- SantaRosa Fld FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WFNAS- Spencer Fld FL Santa Rosa 11401 3 19527 15225 28.26 35666 1576 2070 4.42 494 Navy WfNAS- Spencer Fld FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy Wfing Field NAS FL Santa Rosa 11401 4 19527 15225 28.26 35666 1576 2070 4.42 494 Navy Kings Bay Sub Support GA Camden 16667 5 13664 12082 13.09 21841 5792 2066 26.52 3726 Navy Fort Benning GA Chattahoochee 184051 2 19068 12953 47.21 14300 12619 17209 88.24 4590 Navy Ft McPherson-Ft Gillem GA Clayton 1424 1 20236 15881 27.42 126667 818 841 0.65 23 Navy Fort McPherson GA Cobb 7283 1 30263 22435 34.89 346871 3287 2809 0.95 478 Navy Fort McPherson GA Fulton 487 1 37800 26154 44.53 822595 4537 5145 0.55 608 Navy Fort McPherson GA Liberty 279271 3 13491 8673 55.55 31655 15972 14887 50.46 1085 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14355 8.21 3475 Navy Fort Gordon GA Richmond 55588 2 21465 17019 26.12 132545 10880 14315 4042 32.94 2			_												0.14
Navy         WFNAS- Spencer Fld         FL         Santa Rosa         11401         3         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Whiting Field NAS         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Kings Bay Sub Support         GA         Camden         16667         5         13664         12082         13.09         21841         5792         2066         26.52         3726           Army         For Benning         GA         Chattahoochee         184051         2         19068         12953         47.21         14300         12619         17209         88.24         -4590           Army         Ft McPherson- Ft Gillem         GA         Clayton         1424         1         20236         15881         27.42         126667         818         841         0.65         -23           AF         Dobbins AFB         GA         Cobb         7283         1         30263         22435         34.89         346871         3287         2809         0.95 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.14</td></t<>															0.14
Navy         Whiting Field NAS         FL         Santa Rosa         11401         4         19527         15225         28.26         35666         1576         2070         4.42         -494           Navy         Kings Bay Sub Support         GA         Camden         16667         5         13664         12082         13.09         21841         5792         2066         26.52         3726           Army         Fort Benning         GA         Chattahoochee         184051         2         19068         12953         47.21         14300         12619         17209         88.24         -4590           Army         Ft McPherson- Ft Gillem         GA         Clayton         1424         1         20236         15881         27.42         126667         818         841         0.65         -23           AF         Dobbins AFB         GA         Cobb         7283         1         30263         22435         34.89         346871         3287         2809         0.95         478           MC         MC Logistics - Albany         GA         Dougherty         3841         2         20600         14635         40.76         67171         1214         1687         1.81 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.14</td></td<>															0.14
Navy         Kings Bay Sub Support         GA         Camden         16667         5         13664         12082         13.09         21841         5792         2066         26.52         3726           Army         Fort Benning         GA         Chattahoochee         184051         2         19068         12953         47.21         14300         12619         17209         88.24         -4590           Army         Ft McPherson- Ft Gillem         GA         Clayton         1424         1         20236         15881         27.42         126667         818         841         0.65         -23           AF         Dobbins AFB         GA         Cobb         7283         1         30263         22435         34.89         346871         3287         2809         0.95         478           MC         MC Logistics - Albany         GA         Dougherty         3841         2         20600         14635         40.76         67171         1214         1687         1.81         -473           Army         Fort McPherson         GA         Fulton         487         1         37800         26154         44.53         822595         4537         5145         0.55         -608 <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.14</td>			_			-									0.14
Army         Fort Benning         GA         Chattahoochee         184051         2         19068         12953         47.21         14300         12619         17209         88.24         -4590           Army         Ft McPherson- Ft Gillem         GA         Clayton         1424         1         20236         15881         27.42         126667         818         841         0.65         -23           AF         Dobbins AFB         GA         Cobb         7283         1         30263         22435         34.89         346871         3287         2809         0.95         478           MC         MC Logistics - Albany         GA         Dougherty         3841         2         20600         14635         40.76         67171         1214         1687         1.81         -473           Army         Fort McPherson         GA         Fulton         487         1         37800         26154         44.53         822595         4537         5145         0.55         608           AF         Robins AFB         GA         Houston         8722         2         20050         15846         26.53         56502         4941         4319         8.74         622			_												0.35
Army         Ft McPherson- Ft Gillem         GA         Clayton         1424         1         20236         15881         27.42         126667         818         841         0.65         -23           AF         Dobbins AFB         GA         Cobb         7283         1         30263         22435         34.89         346871         3287         2809         0.95         478           MC         MC Logistics - Albany         GA         Dougherty         3841         2         20600         14635         40.76         67171         1214         1687         1.81         -473           Army         Fort McPherson         GA         Fulton         487         1         37800         26154         44.53         822595         4537         5145         0.55         -608           AF         Robins AFB         GA         Houston         8722         2         20050         15846         26.53         56502         4941         4319         8.74         622           Army         Fort Stewart         GA         Liberty         279271         3         13491         8673         55.55         31655         15972         14887         50.46         1085						_									0.07
AF         Dobbins AFB         GA         Cobb         7283         1         30263         22435         34.89         346871         3287         2809         0.95         478           MC         MC Logistics - Albany         GA         Dougherty         3841         2         20600         14635         40.76         67171         1214         1687         1.81         -473         181         -483					_										0.57
MC         MC Logistics - Albany         GA         Dougherty         3841         2         20600         14635         40.76         67171         1214         1687         1.81         -473         I           Army         Fort McPherson         GA         Fulton         487         1         37800         26154         44.53         822595         4537         5145         0.55         -608         9           AF         Robins AFB         GA         Houston         8722         2         20050         15846         26.53         56502         4941         4319         8.74         622           Army         Fort Stewart         GA         Liberty         279271         3         13491         8673         55.55         31655         15972         14887         50.46         1085           AF         Moody AFB         GA         Lowndes         6050         6         19596         14083         39.15         53918         4356         3893         8.08         463           MC         Townsend Rng         GA         McIntosh         5183         5         14410         10825         33.12         3375         39         36         1.16         3			_												0.45
Army         Fort McPherson         GA         Fulton         487         1         37800         26154         44.53         822595         4537         5145         0.55         608           AF         Robins AFB         GA         Houston         8722         2         20050         15846         26.53         56502         4941         4319         8.74         622           Army         Fort Stewart         GA         Liberty         279271         3         13491         8673         55.55         31655         15972         14887         50.46         1085           AF         Moody AFB         GA         Lowndes         6050         6         19596         14083         39.15         53918         4356         3893         8.08         463           MC         Townsend Rng         GA         McIntosh         5183         5         14410         10825         33.12         3375         39         36         1.16         3           Army         Fort Gordon         GA         Richmond         55588         2         21465         17019         26.12         132545         10880         14355         8.21         -3475           AF			+												0.32
AF         Robins AFB         GA         Houston         8722         2         20050         15846         26.53         56502         4941         4319         8.74         622           Army         Fort Stewart         GA         Liberty         279271         3         13491         8673         55.55         31655         15972         14887         50.46         1085           AF         Moody AFB         GA         Lowndes         6050         6         19596         14083         39.15         53918         4356         3893         8.08         463           MC         Townsend Rng         GA         McIntosh         5183         5         14410         10825         33.12         3375         39         36         1.16         3           Army         Fort Gordon         GA         Richmond         55588         2         21465         17019         26.12         132545         10880         14355         8.21         -3475           AF         Boise Air Terminal         ID         Ada         1994         1         27887         19371         43.96         19824         1304         1139         0.66         165           AF			_		ĺ										9.32
Army         Fort Stewart         GA         Liberty         279271         3         13491         8673         55.55         31655         15972         14887         50.46         1085           AF         Moody AFB         GA         Lowndes         6050         6         19596         14083         39.15         53918         4356         3893         8.08         463           MC         Townsend Rng         GA         McIntosh         5183         5         14410         10825         33.12         3375         39         36         1.16         3           Army         Fort Gordon         GA         Richmond         55588         2         21465         17019         26.12         132545         10880         14355         8.21         -3475           AF         Boise Air Terminal         ID         Ada         1994         1         27887         19371         43.96         198244         1304         1139         0.66         165           AF         Mountain Home AFB         ID         Elmore         9000         6         16632         15260         8.99         13089         4311         4042         32.94         269															0.57
AF         Moody AFB         GA         Lowndes         6050         6         19596         14083         39.15         53918         4356         3893         8.08         463         MC           MC         Townsend Rng         GA         McIntosh         5183         5         14410         10825         33.12         3375         39         36         1.16         3         1           Army         Fort Gordon         GA         Richmond         55588         2         21465         17019         26.12         132545         10880         14355         8.21         -3475         1           AF         Boise Air Terminal         ID         Ada         1994         1         27887         19371         43.96         198244         1304         1139         0.66         165           AF         Mountain Home AFB         ID         Elmore         9000         6         16632         15260         8.99         13089         4311         4042         32.94         269			-												0.06
MC         Townsend Rng         GA         McIntosh         5183         5         14410         10825         33.12         3375         39         36         1.16         3           Army         Fort Gordon         GA         Richmond         55588         2         21465         17019         26.12         132545         10880         14355         8.21         -3475           AF         Boise Air Terminal         ID         Ada         1994         1         27887         19371         43.96         198244         1304         1139         0.66         165           AF         Mountain Home AFB         ID         Elmore         9000         6         16632         15260         8.99         13089         4311         4042         32.94         269	_		_												0.72
Army         Fort Gordon         GA         Richmond         55588         2         21465         17019         26.12         132545         10880         14355         8.21         -3475           AF         Boise Air Terminal         ID         Ada         1994         1         27887         19371         43.96         198244         1304         1139         0.66         165           AF         Mountain Home AFB         ID         Elmore         9000         6         16632         15260         8.99         13089         4311         4042         32.94         269															0.01
AF         Boise Air Terminal         ID         Ada         1994         1         27887         19371         43.96         198244         1304         1139         0.66         165           AF         Mountain Home AFB         ID         Elmore         9000         6         16632         15260         8.99         13089         4311         4042         32.94         269												14355	8.21	-3475	0.20
AF Mountain Home AFB ID Elmore 9000 6 16632 15260 8.99 13089 4311 4042 32.94 269			+			-						1139	0.66	165	0.65
						6					4311	4042			0.48
		Mtn Home Sm Arms Rng	+	Elmore	9000	6	16632	15260	8.99	13089	4311	4042		269	0.48
Army Pershing II Launch Site ID Owyhee 109000 6 14225 12519 13.63 3776 48 47 1.27 1	Army	Pershing II Launch Site	ID	Owyhee	109000	6	14225	12519	13.63	3776	48	47	1.27	1	0.00

		Π		DOD	Т	Per C	apita Ea	rnings	En	nploymer		ME	Not	ME
		l		Cnty	UA			Grwth	Total		<u></u>	% of	Net Chnq	Per
			Resident	Area	Prox.	\$	\$	%	(TE)	Milita	y (ME)	TE	in ME	DOD
Dept.	Property	ST	County	acres	Class	1997	1990	90-97	1997	1997	1985	1997	85-97	Area
	Saylor Creek Trng Rng	ID	Owyhee	109000	6	14225	12519	13.63	3776	48	47	1.27	1	0.00
	Great Lakes Trng Cntr	IL	Lake	1030	2	40260	28201	42.76	376106	24499	26502	6.51	-2003	23.79
Army	CM Price Support Cntr	IL	Madison	686	1	23060	17842	29.25	123778	643	792	0.52	-149	0.94
	Rock Island Arsenal	IL.	Rock Island	946	1	24730	18883	30.96	94848	593	808	0.63	-215	0.63
	Scott AFB	IL.	St. Clair	3230	3	21153	15891	33.11	118733	6895	7903	5.81	-1008	2.14
	Camp Atterbury	IN	Bartholomew	35000	4	25276	18328	37.91	51444	250	328	0.49	-78	0.01
	Indiana AAP	IN	Clark	11347	3	21969	16016	37.17	53174	339	424	0.64	-85	0.03
	Crane NSW Cntr	IN	Martin	62938	5	18730	13669	37.03	8873	105	102	1.18	3	0.00
AF	Grissom ARB	IN	Miami	3181	4	18794	13997	34.27	14200	139	2834		-2695	0.04
	Newport AAP	IN	Vermillion	7098	5	18850	14215	32.61	6998	70	91	1.00	-21	0.01
	Iowa AAP	IA	Des Moines	19124	6	22750	17101	33.03	29441	205	223	0.70	-18	0.01
	Camp Dodge	IA	Polk	4400	2	28271	20775	36.08	296285	1958	1855	0.66	103	0.45
	Fort Riley	KS	Geary/Riley	100671	6	17772	13083	35.84	25009	10141	17101		-6960	0.10
	Sunflower AAP	KS	Johnson	9542	3	36845	26350	39.83	316393	2103	2315		-212	0.22
	Kansas AAP	KS	Labette	13835	6	17944	14063	27.60	14224	115	153	0.81	-38	0.01
	Fort Leavenworth	KS	Leavenworth	5600	4	18738	14225	31.73	30997	3619	3852	11.68	-233	0.65
	Smoky Hill ANG Rng	KS	Saline	34000	6	26422	19898	32.79	38291	260	303	0.68	-43	0.01
	McConneil AFB		Sedgwick	3113	2	24870	19395	28.23	303350	4936	5821	1.63	-885	1.59
	Fort Campbell	KY	Christian	105070	2	14651	11064	32.42	58620	24354	23461		893	0.23
	Fort Knox	KY	Hardin	109210	3	18262	13399	36.29	57411	9659	18953		-9294	0.09
	Blue Grass Army Depot	KY	Madison	14596	5	18249	13067	39.66	33413	250	350		-100	0.02
	Barksdale AFB New Orleans NAS	LA	Bossier	22361	2	20531	14215	44.43	50897	6199	6124	12.18	75	0.28
	Fort Polk	LA LA	Plaquemines	4919	2	19580	14797	32.32	22333	924	848	4.14	76	0.19
	Louisiana AAP	┿	Vernon Webster	198894	6	15471	10920	41.68	24172	8288	15356		-7068	0.04
_	Brunswick NAS	LA ME	Cumberland	14974	4	17277 28044	13019	32.71	16461	240	235	1.46	5	0.02
	US Naval Radio Station	-		15910 596	6		21231	32.09	204066	4291	5752		-1461	0.27
	Fort Meade	MD	Washington Anne Arundel	7416	2	16895 28663	13405 22301	26.04 28.53	17845	339	407	1.90	-68	0.57
	USN Academy	MD	Anne Arundel	7416	2	28663	22301	28.53	269353 269353	15745 15745	17126	5.85	-1381	2.12
	Solomon's NRC	MD	Calvert	7416 NA	6	25310	21046	20.26	23917	317	17126 217	5.85	-1381	2.12
	Naval SWC- Indian Hd	MD	Charles	3410	3	24306	19496	24.67	46572	937	948	1.33 2.01	100	NA O OO
	Blood Isl Rng-Little Cr Fld	MD	Dorchester	6013	6	19860	15797	25.72	15717	127	158	0.81	-11 -31	0.28
		MD	Frederick	1200	1	26270	20129	30.51	93200	1729	1669	1.86	60	1.44
	Aberdeen Proving Grnd	MD	Harford	72500	3	24510	19811	23.72	87007	4214	5806	4.84	-1592	0.06
	Andrews AFB	MD	Prince Georges	7550	1	25194	20733	21.52	385602	9691	10670		-979	1.28
			St Marys	7950	6	22823	16762	36.16	43453	3248	3825		-577	0.41
			St Marys	7950	6		16762		43453	3248	3825	7.47		0.41
			Barnstable	21000	3	30199			118981	1352	1671	1.14		0.06
			Hampden	2581	2	24795	19589		241892	1594	2379	0.66		0.62
		_	Middlesex	1072	2	37326			1020880	6977	15127		-8150	6.51
			Middlesex	1072	2	37326	27004		1020880	6977	15127		-8150	6.51
			Worcester	5000	3	26463	20061		391935	2530	3469	0.65		0.51
			Crawford	147000	6	14717	11714	25.64	5665	30	33			0.00
			Macomb	3070	2	25638	20943		401847	2054	2861	0.51	_	0.67
			Harrison	4771	1	20285	13439		117324	12510	15478	10.66		2.62
	Meridian NAS-Williams FldField			NA	6	14694	10196	44.12	3483	73	75	2.10		NA NA
			Lauderdale	8000	6	20467	14604	40.15	45806	2001	3561	4.37		0.25
		_	Noxubee	NA	6	14138	9422	50.05	5361	87	102			NA NA
		_	Noxubee	NA	6	14138	9422	50.05	5361	87	102			NA NA
			Jackson	3950	3	24807	18802		472369	3387	3856	0.72		0.86
· · · · · · · · · · · · · · · · · · ·					6	16940	12520	35.30	23597	3178	3461	13.47		0.69
		MO	Johnson i	404/ 1										
AF	Whiteman AFB		Johnson Pulaski	4627 64735	6	17487								-
AF Army	Whiteman AFB Fort Leonard Wood	МО	Pulaski	64735		17487	11780	48.45	23045	9373	11742	40.67	-2369	0.15
AF Army AF	Whiteman AFB Fort Leonard Wood Malmstrom AFB	NO NO	Pulaski Cascade	64735 3573	6	17487 21630	11780 16379	48.45 32.06	23045 48735	9373 3964	11742 4474	40.67 8.13	-2369 -510	0.15 1.11
AF Army AF Army	Whiteman AFB Fort Leonard Wood Malmstrom AFB Fort William H Harrison	원토토	Pulaski Cascade Lewis & Clark	64735 3573 8500	6 2	17487 21630 21635	11780 16379 16262	48.45 32.06 33.04	23045 48735 37348	9373 3964 310	11742 4474 332	40.67 8.13 0.83	-2369 -510 -22	0.15 1.11 0.04
AF Army AF Army AF	Whiteman AFB Fort Leonard Wood Malmstrom AFB Fort William H Harrison Offutt AFB	동독본	Pulaski Cascade	64735 3573	6 2 6	17487 21630	11780 16379	48.45 32.06	23045 48735	9373 3964	11742 4474	40.67 8.13 0.83 17.06	-2369 -510 -22 -4071	0.15 1.11

		Τ		DOD		Per C	apita Ear	mings	Em	ploymen	t	ME	Net	ME
		1.		Cnty	UA			Grwth	Total			% of	Chng	Per
			Resident	Area	Prox.	\$	\$	%	(TE)	Militar	y (ME)	TE	in ME	DOD
Dept.	Property	ST	County	acres	Class	1997	1990	90-97	1997	1997	1985	1997	85-97	Area
Navy	Fallon NAS - Bravo 16	N۷	Churchill	223806	6	19724	15299	28.92	12181	1205	921	9.89	284	0.01
	Fallon NAS - Bravo 17	N۷	Churchill	223806	6	19724	15299	28.92	12181	1205	921	9.89	284	0.01
Navy	Fallon NAS - Bravo 19	N۷	Churchill	223806	6	19724	15299	28.92	12181	1205	921	9.89	284	0.01
Navy	Fallon NAS - Bravo 20	N۷	Churchill	223806	6	19724	15299	28.92	12181	1205	921	9.89	284	0.01
AF	Nellis AFB	N۷	Clark	11200	2	26212	19614	33.64	715062	9036	11266	1.26	-2230	0.81
AF	Nellis AFB- Indian Sprngs	NV	Clark	11200	6	26212	19614	33.64	715062	9036	11266	1.26	-2230	0.81
AF	Nellis AFB Sm Arms Rng	_	Clark	11200	3	26212	19614	33.64	715062	9036	11266	1.26	-2230	0.81
Navy	Hawthorne Army Depot		Mineral	147000	6	22475	16548	35.82	3081	19	77	0.62	-58	0.00
	Nellis Air Force Rng		Nye	3100000	_	20402	15904	28.28	11294	70	73	0.62	-3	0.00
	Fort Dix	_	Burlington	34594	3	27849	21693	28.38	217844	6698	16433	3.07	-9735 -9735	0.19
	Mc Guire AFB		Burlington	34594	4	27849	21693	28.38	217844	6698	16433		-9735 -1608	0.19
	Earle NWS - Mainside		Monmouth	12201	2	33952	26178	29.70	298649	4408 4408	6016 6016	1.48	-1608	0.36
	Earle NWS - Waterfront	_	Monmouth	12201	1	33952	26178		298649	4408	6016		-1608	0.36
	Fort Monmouth		Monmouth	12201	1	33952	26178		298649	1237	1722	0.38	-485	0.19
	Picatinny Arsenal	NJ	Morris	6493	2	42913 25725	31764 20935	35.10 22.88	324708 173217	1685	2600		- <del>405</del> -915	0.13
Navy	Lakehurst NASC	NJ NM	Ocean Bernalillo	7431 52678	2_2	24478	17472		376473	6668	7663		-995	0.13
AF AF	Kirtland AFB Cannon AFB	-	Curry	4536	6	17297	13479	28.33	23197	4241	4057	18.28	184	0.94
	White Sands Missile Rng	NM	Dona Ana	2285327	4	14923	12399	20.36	68690	721	689	1.05	32	0.00
	Fort Bliss McGregor Rng	NM	Otero	737739	3	15803	12377	27.68	27891	4899	7849	17.56	-2950	0.01
AF	Holloman AFB	_	Otero	737739	6	15803	12377	27.68	27891	4899	7849	17.56	-2950	0.01
	Melrose Rng		Roosevelt	NA NA	6	14967	12850	16.47	7565	71	93	0.94	-22	NA
	Fort Drum	-	Jefferson	107265	6	17918	14555	23.11	60173	10728	1491	17.83	9237	0.10
	Hancock Field	NY	Onondaga	371	2	24933	19875	25.45	304659	1293	1922	0.42	-629	3.49
	MC Reserve Trng Cntr		Onondaga	371	1	24933	19875	25.45	304659	1293	1922	0.42	-629	3.49
	USMA West Point		Orange	16000	3	23096	19129	20.74	150954	6378	7595	4.23	-1217	0.40
	Seneca Army Depot	NY	Seneca	10634	6	20597	16348	25.99	13732	85	759		-674	0.01
	Ocean Terminal Sunny Pt	_	Brunswick	16000	3	17978	13764	30.62	27864	258	220	0.93	38	0.02
MC	Cherry Point Rng BT-9	NC	Carteret	3875	6	20798	14612	42.34	30257	431	571		-140	0.11
	ChPt MCAS - Bogue Fld	NC	Carteret	3875	5	20798	14612	42.34	30257	431	571		-140	0.11
MC	Cherry Point MCAS	NC	Craven	13164	6	20747	14627	41.84	55707	8310	11252	14.92	-2942	0.63
Army	Fort Bragg	NC	Cumberland	162567	2	20219	13334	51.63	173254	47145	48282		-1137	0.29
AF	Pope AFB	NC	Cumberland	162567	2	20219	13334	51.63	173254	47145	48282	27.21	-1137	0.29
AF	Cherry Pt Dare Cty Rng	-	Dare	10000	6	21624	16229	33.24	22239	237	186	1.07	51	0.02
Navy	ChPt MCAS-OakGroveFld	NC	Jones	900	5	22449	14970	49.96	3035	29	36	0.96	-7	0.03
	Camp LeJeune		Onslow	127439	2	16900	10532	60.46	86617	37927	39012		-1085	0.30
	Ft Bragg- Camp Mackall		Richmond	6542	6	17210		30.21	20175	147	174	0.73	-27	0.02
	Seymour Johnson AFB		Wayne	3233	2	18611		40.80	58656	4751	5390	8.10		0.89
	Grand Forks AFB		Grand Forks	5422	3	20138	14687	37.11	48955	4833	6059		-1226	
	Minot AFB		Ward	5085	6	20190		34.22	40330	5042	6663	12.50 0.42		0.99
	DSC - Columbus	_	Franklin	551	1	26647	19648		804406	3362	3955 5960	-	-1826	6.10 0.51
	Wright-Patterson AFB		Greene	8145	2	23653	17696	33.66	69512	4134 423	541	0.59		0.02
	Ravenna AAP		Portage	21420	3	21478	15698	36.82	71711	14984	20460	24.01		0.16
	Fort Sill		Comanche	94220	2	17487	13562	28.94	62395	1345	1736	3.88		0.30
	Vance AFB		Garfield	4555	6	21474		30.71	34667		3875	14.77		0.34
	Altus AFB	_	Jackson	6981	6	16753	13270	26.25	15866 488866	2344 11385	11527	2.33		2.28
	Tinker AFB	_	Oklahoma	5000	1 6	23236 16390	18111 12431	28.30 31.85	19843	225	279	1.13	-54	0.01
	McAlester AAP		Pittsburg	2000	6	21176		26.46	21833	481	472	2.20	9	0.24
	Camp Rilea		Clatsop	1072	6	18466		32.39	32065	236	298	0.74		0.22
	Kingsley Field AGS	_	Klamath	47000	6	15585		1.58	5280	53	74	1.00	<del> </del>	0.00
MELT	WINAS - Boardman Rng Umatilla Chemical Depot	_	Morrow	19729	6		13929	36.50	34907	244	309	0.70		0.01
		IUH	Umatilla					24.76	41175	294	335	0.71	-41	0.41
Army		_	Adame	710										
Army Army	Site R - Raven Rock	PA	Adams	718	4	21540				<del></del>				0.91
Army Army Army	Site R - Raven Rock DDD Susquehanna	PA PA	Cumberland	1672	2	27296	20920	30.48	154694	1518	1634	0.98	-116	0.91
Army Army Army Navy	Site R - Raven Rock	PA PA PA			<del></del>		20920 20920	30.48 30.48	154694	<del></del>		0.98 0.98	-116	0.91 0.91 0.05

		1		DOD	T	Per 0	Capita Ea	mings	E	nployme	nt	ME	Mes	T
İ				Cnty	UA		Ĭ	Grwth	Total			% of	Net Chna	ME
			Resident	Area	Prox.	\$	\$	%	(TE)	Milita	ry (ME)	TE	in ME	DOD
Dept.	Property	ST	County	acres	Class	1997	1990	90-97	1997	1997	1985	1997	85-97	Агеа
Navy	Willow Grove NAS		Montgomery	1100	2	40249	30592	31.57	560489	3882	4143	0.69	-261	3.53
Navy	Newport Trng Cntr	RI	Newport	1214	2	27558	20582	33.89	48588	4127	6536	8.49	-2409	3.40
MC	Beaufort MCAS	_	Beaufort	15013	6	25599	19579	30.75	72354	11701	11905	16.17	-204	0.78
MC	Bft MCAS - Laurel Bay Housing		Beaufort	15013	6	25599	19579	30.75	72354	11701	11905	16.17	-204	0.78
MC	Parris Isl Recruit Depot	_	Beaufort	15013	6	25599	19579	30.75	72354	11701	11905	16.17	-204	0.78
Navy	Charleston NWS		Berkeley	17429	2	15147	12844	17.93	39402	800	886	2.03	-86	0.05
AF	Charleston AFB	SC	Charleston	3733	1	21670	16856	28.56	224147	9735	32685	4.34	-22950	2.61
Army AF	Fort Jackson	SC	Richland	52301	2	23874	17661	35.18	250755	11825	14310	4.72	-2485	0.23
AF	Shaw AFB	SC	Sumter	3363	2	16883	12510	34.96	55166	5732	6999	10.39	-1267	1.70
Army	Ellsworth AFB Milan Arsenal	SD	Pennington	10632	3	21270	15518	37.07	62085	3612	6717	5.82	-3105	0.34
	Memphis NAS	TN	Gobson	22624	4	19487	14043	38.77	25337	206	268	0.81	-62	0.01
	Camp Swift NG Facility	TN	Shelby	3450	3	27300	19123	42.76	606548	4869	16262	0.80	-11393	1.41
	Fort Hood	TX.	Bastrop	11700	5	18530	13288	39.45	16441	137	109	0.83	28	0.01
_	Brooks AFB		Bell	217345	2	19714	14275	38.10	149803	43824	40028		3796	0.20
			Bexar	28368	1	22505	15941	41.18	794833	37110	43513	4.67	-6403	1.31
	Fort Sam Houston	_	Bexar	28368	2	22505	15941	41.18	794833	37110	43513	4.67	-6403	1.31
AF		TX	Bexar	28368	1	22505	15941	41.18	794833	37110	43513	4.67	-6403	1.31
	Randolph AFB		Bexar	28368	2	22505	15941	41.18	794833	37110	43513	4.67	-6403	1.31
		TX TV	Bexar	28368	2	22505	15941	41.18	794833	37110	43513	4.67	-6403	1.31
			Bowie El Paso	19081	3	21254	15757	34.89	47860	252	348	0.53	-96	0.01
	Longhorn Ordnance AAP	_		1126514	2	15216	11852	28.38	307899	11679	19666	3.79	-7987	0.01
	Kingsville NAS		Harrison Kleberg	8493	5	18083	13846	30.60	28470	166	190	0.58	-24	0.02
-		TX TX	Nueces	16334	6	16445	11884	38.38	14194	747	1834		-1087	0.05
			Parker	4506	2	20673	15462	33.70	179694	3786	3447	2.11	339	0.84
		_	Tarrant	NA NA	6	21584	15915	35.62	29063	220	180	0.76	40	NA
		_	Taylor	6405	2	25818 21202	19388		812265	4572	8712			NA
		X	Tom Green	1136	3	20968	15728	34.80	79961	5074	5788		-714	0.79
		_	Val Verde	5131	6	12942	15610 10221	34.32	62313	3399	2471		928	2.99
			Wichita	6158	2	21632		26.62	18065	1388	3115		-1727	0.27
			Davis	6698	1	19954	16455 14030	31.46	82998	8229	9204		-975	1.34
			Grand	NA	6	16247	11902	42.22 36.51	111499 5495	5546	6763		-1217	0.83
			Tooele	843027	6	17542	13493	30.01	13936	45 266	60			NA
			Tooele	843027	6	17542	13493	30.01	13936	266	511 511		-245	0.00
				843027	5	17542	13493	30.01	13936	266	511		-245 -245	0.00
	Utah Test Rng (North)			843027	6	17542	13493	30.01	13936	266	511			0.00
				843027	6	17542	13493	30.01	13936	266	511		-245 -245	0.00
			Utah	25000	2	16567	11549		174766	1851	2002	1.06		0.00
			Weber	NA	5	20650	15128		109307	1039	1416	0.95		NA
			Chittenden	NA	2	26840	20546		111920	1135	1127	1.01		NA NA
			Chittenden	NA	4	26840	20546		111920	1135	1127	1.01		NA NA
			Caroline	76000	4	18770	15077	24.49	6468	126	186			0.00
Navy			Chesapeake	2406	2	21457	17462	22.88	93303	1992	1238			0.83
Army		$\overline{}$	Dinwiddie	45160	6	22730	16946	34.13	38446	303	385			0.01
Army		_	Fairfax	8656	2	39951	29930		647544	7273	10603	1.12		0.84
Army		_	Hampton	4222	2	19973	15666	27.49	80005	9428	11281	11.78		2.23
			Hampton	4222	1	19973	15666	27.49	80005	9428	11281	11.78 -		2.23
Navy		$\rightarrow$	King George	4321	6	23319	18482	26.17	10981	863	252	7.86		0.20
Army			Newport News	8229		20258	15826		115428	7944	9254	6.88		0.20
Navy I	Norfolk Naval Station		Vorfolk	3400	2	20221	15063		234424	62713	75656	26.75 -		18.45
Army (		_	Portsmouth	801		19648	15257	28.78	52783	5324	5007	10.09		6.65
			Portsmouth	801			15257	28.78	52783	5324	5007	10.09		6.65
Army f			Prince George	5574		19234	15013	28.12	28547	5718	6472	20.03		1.03
MC (			Prince William	60483		24483	19709		128394	6424	5604			0.11
			Pulaski	6901		18036	13531	33.29	18854	135	165			0.02
Army F		_	Pulaski	6901	-	18036	13531	33.29	18854	135	165	0.72		0.02
		$\overline{}$	/irginia Beach	29408			19526		215127	22208	26516	10.32	_	
	- <u> </u>	1	g		<u></u>		.0050	20.00	-10161	حدد٥٥	20010	10.02	+300	0.76

		П		DOD		Per C	apita Ear	nings	Em	ploymen	ıt	ME	Net	ME
Dept.	Property	ST	Resident County	Cnty Area acres	UA Prox. Class	\$ 1997	\$ 1990	Grwth % 90-97	Total (TE) 1997	Militar	y (ME)	% of TE 1997	Chng in ME 85-97	Per DOD Area
		VA	Virginia Beach	29408	2	24425	19526		215127	22208	26516	10.32	-4308	0.76
	Fort Story	VA	Virginia Beach	29408	2	24425	19526		215127	22208	26516	10.32	-4308	0.76
<del></del>	Little Creek NAB	1		29408	1	24425	19526		215127	22208	26516	10.32	-4308	0.76
	Oceana NAS	+	Virginia Beach	24101	3	24008	20195	18.88	24610	2001	1958	8.13	43	0.08
	Camp Peary	VA	York			24008	20195	18.88	24610	2001	1958	8.13	43	0.08
*****	Yorktown NWS	VA	York	24101	2				<del></del>	2001	1958	8.13	43	0.08
	Yorktwn NWS- Cheatham		York	24101	2	24008	20195	18.88	24610					
Navy	Whidbey Island NAS	WA	Island	71059	6	21776	16310	33.51	31627	8170	7443	25.83	727	0.12
Navy	WINAS - Ault Field	WA	Island	71059	6	21776	16310	33.51	31627	8170	7443	25.83	727	0.12
Navy	Indian Island Magazine	WA	Jefferson	2700	6	22104	17799	24.19	11949	110	106	0.92	4	0.04
Navy	Bangor Nvl Sub Base	WA	Kitsap	8104	2	21580	17577	22.77	113468	16661	10796	14.68	5865	2.06
Navy	Puget Sound Shipyard	WA	Kitsap	8104	1	21580	17577	22.77	113468	16661	10796	14.68	5865	2.06
Army	Fort Lewis	WA	Pierce	90792	2	22511	17358	29.69	319342	24362	34273	7.63	-9911	0.27
AF	McChord AFB	WA	Pierce	90792	2	22511	17358	29.69	319342	24362	34273	7.63	-9911	0.27
	Fairchild AFB	WA	Spokane	4551	4	22293	16630	34.05	240713	5500	6089	2.28	-589	1.21
	Yakima Firing Center			323400	3	19367	15531	24.70	114961	965	1051	0.84	-86	0.00
	Volk Field CRTC	+	Juneau	2336	6	17503	13370	30.91	12590	90	102	0.71	-12	0.04
_	Fort McCov	W!	Monroe	127730	6	17391	13246	31.29	22327	291	327	1.30	-36	0.00
	Francis E Warren AFB	WY	Laramie	5866	2	22815	17938	27.19	51166	3949	4286	7.72	-337	0.67

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#### 14. ABSTRACT

Extreme urban growth and the resultant patterns of development are undermining the military community's ability to maintain mission focus. This paper defines the problem of urban encroachment on military lands and outlines some possible approaches to finding and developing solutions. Among the strategies suggested are more and continued community/installation dialogue, simulation modeling to ascertain future scenarios and possible environmental and planning impacts, and methodologies for the development of regionally based sustainable indices to encourage sustainable and well coordinated planning solutions.

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